PRINT OF DRAWINGS
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FIG. 1

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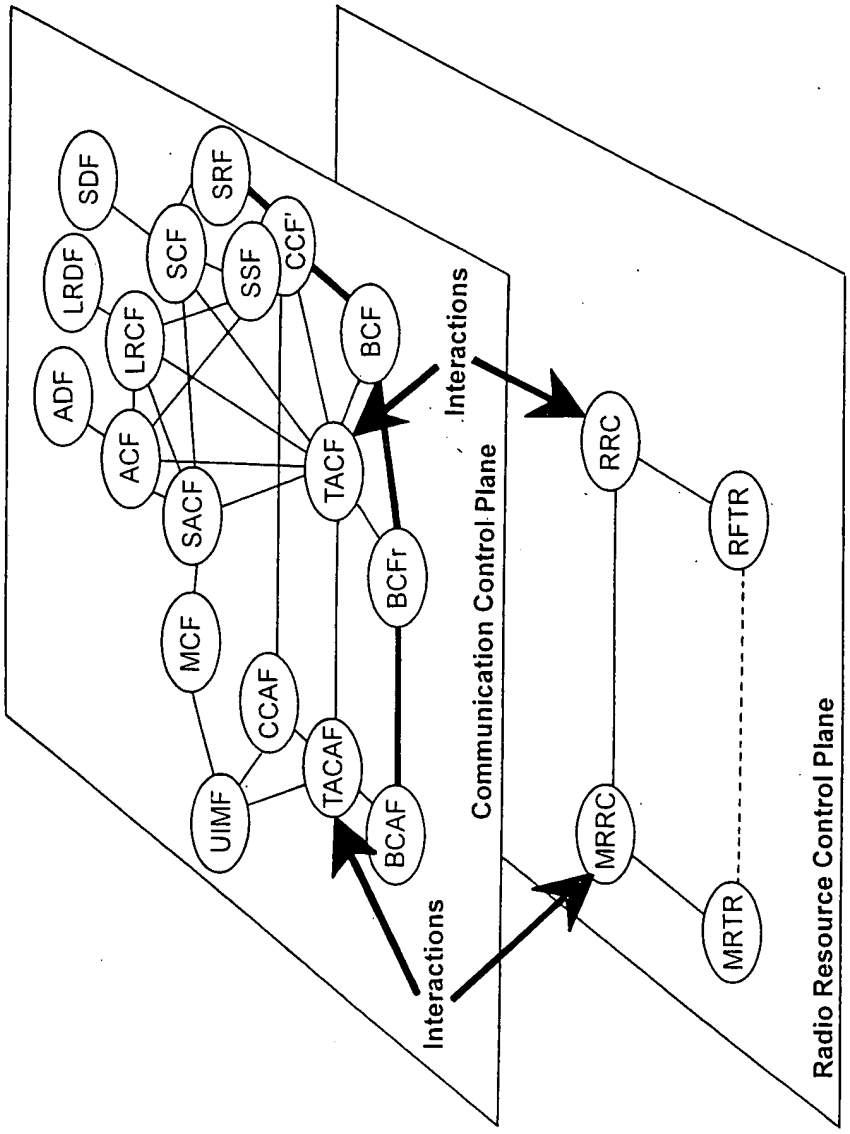
DOCKET NO. 1-1-1-1-1

FIG. 2

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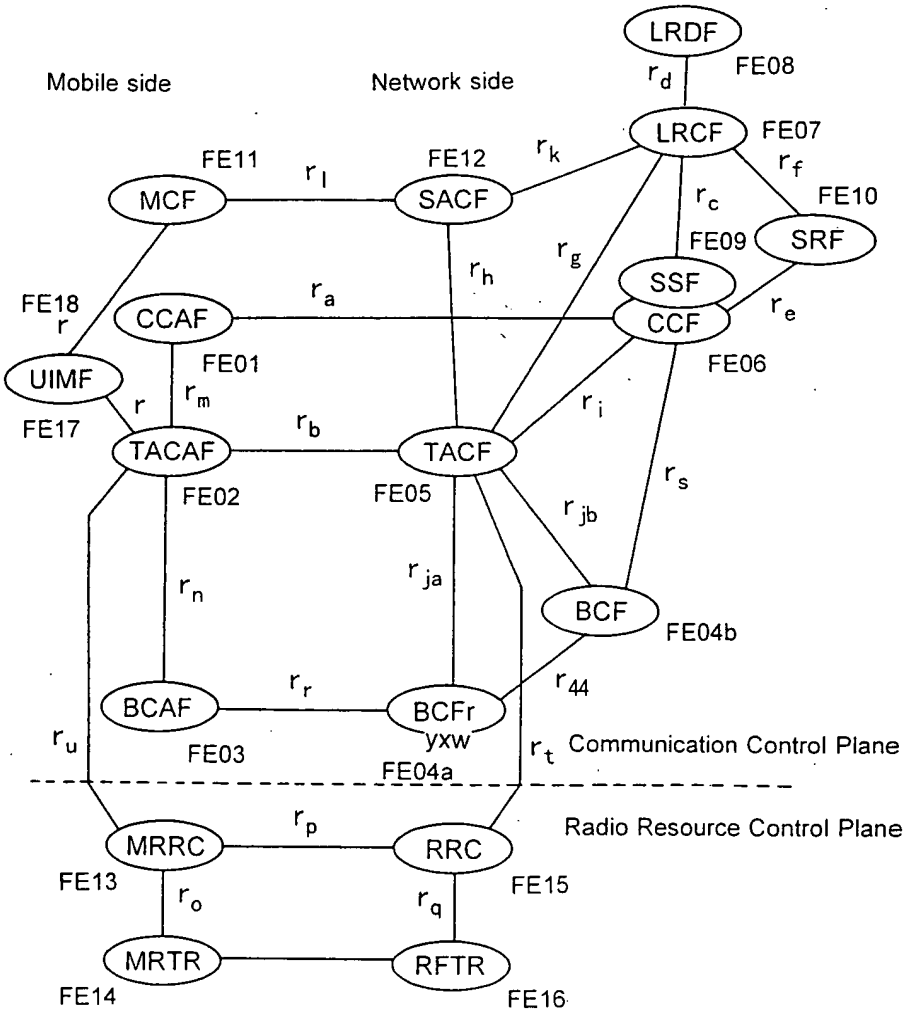
docket tracked

FIG. 3



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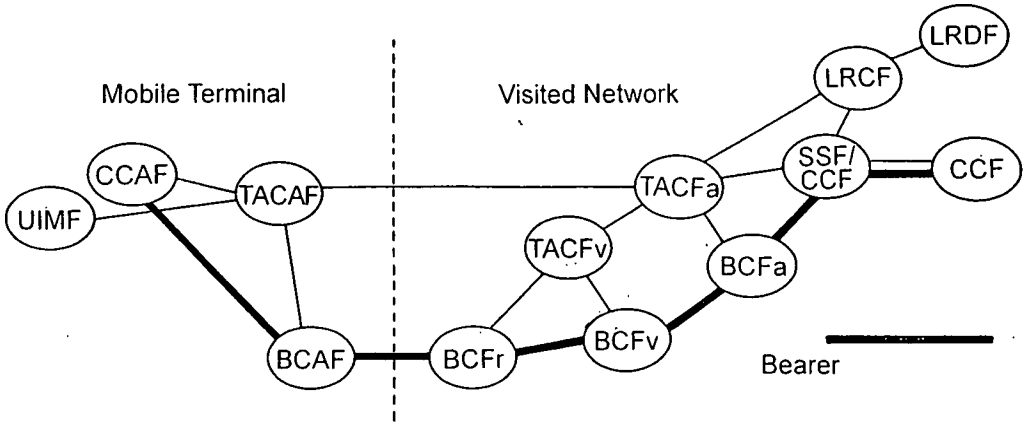
FIG. 4



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FIG. 5

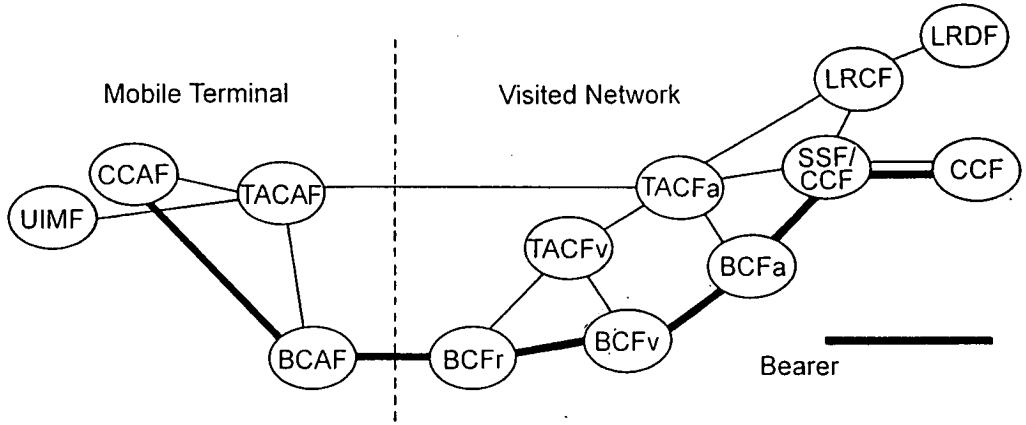


Note: Radio resources are selected under BCFr controlled by the same TACF that received call setup request.
According to the radio resource selection scenario, multiple FEs are involved.

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FIG. 6

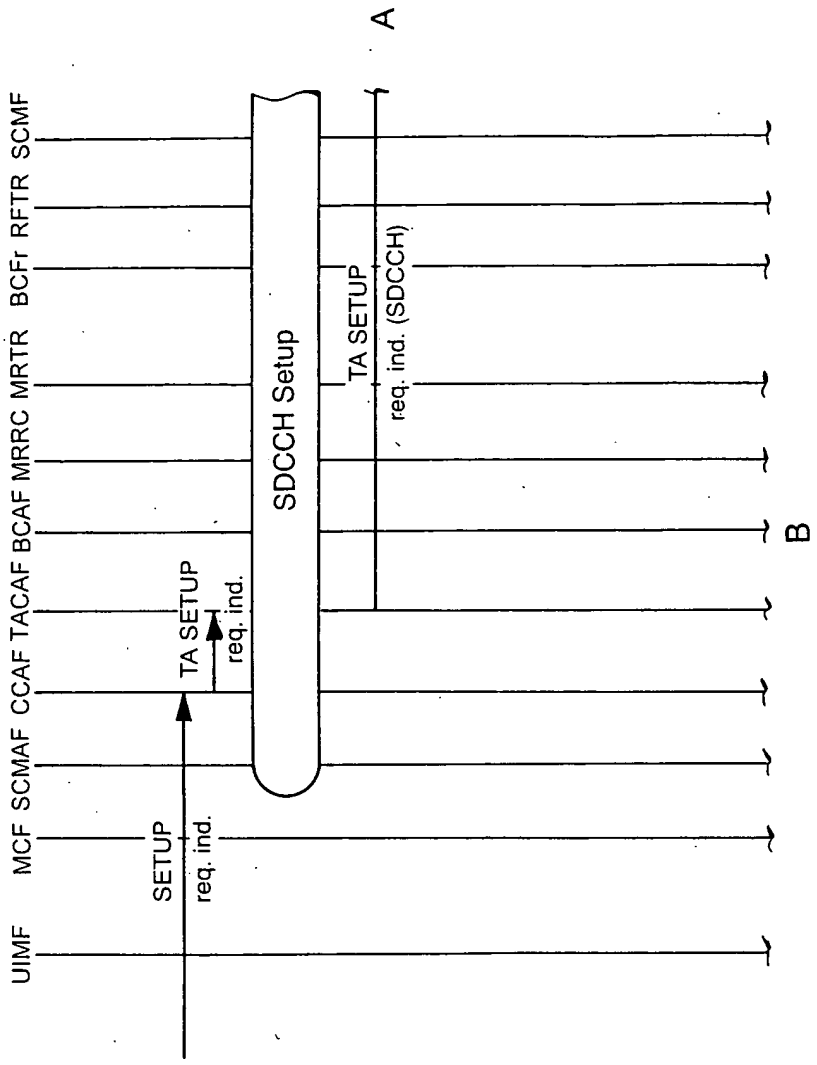


Note: Radio resources are selected under BCFr controlled by the same TACF that received call setup request.
According to the radio resource selection scenario, multiple FEs are involved.

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Received Technology

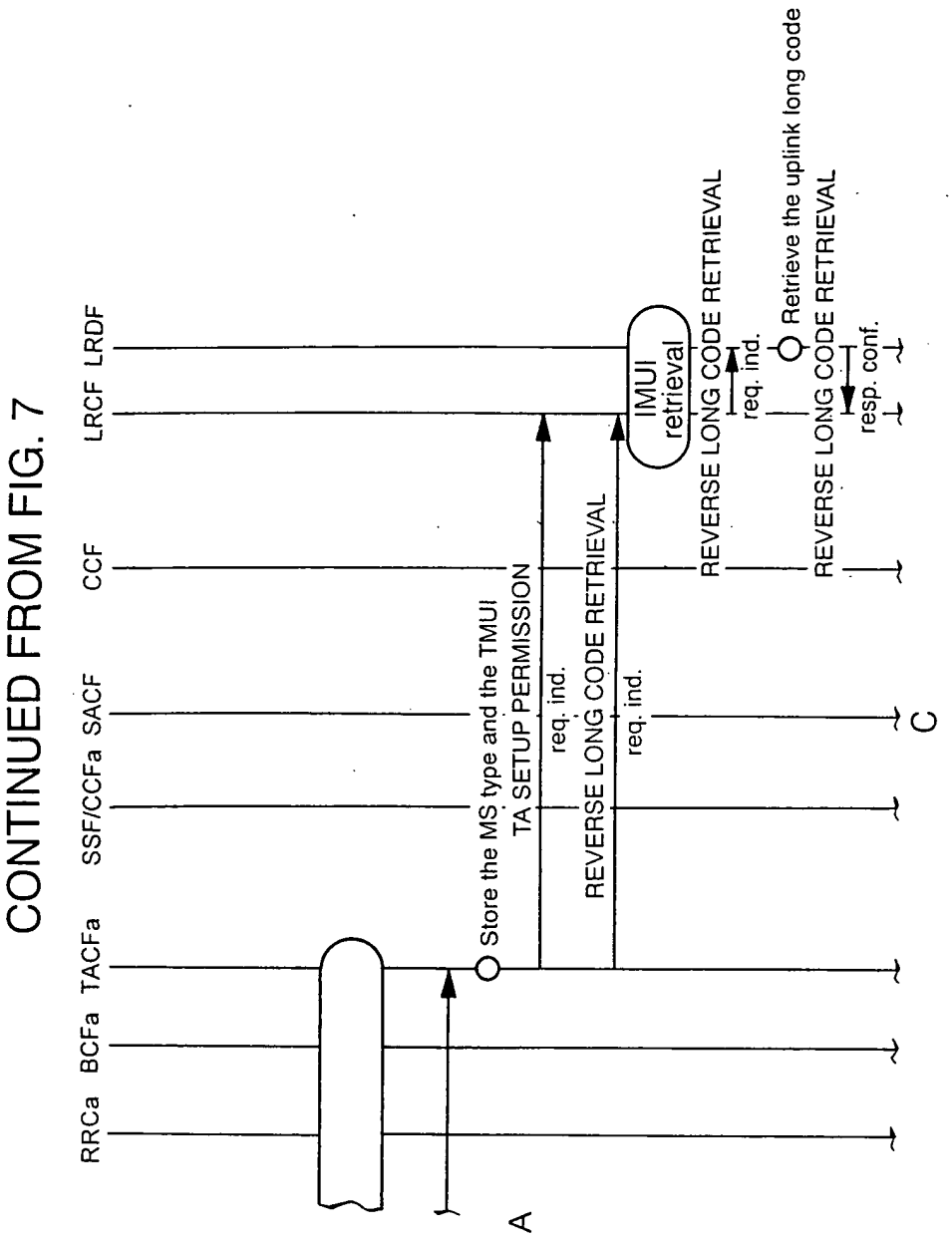
FIG. 7



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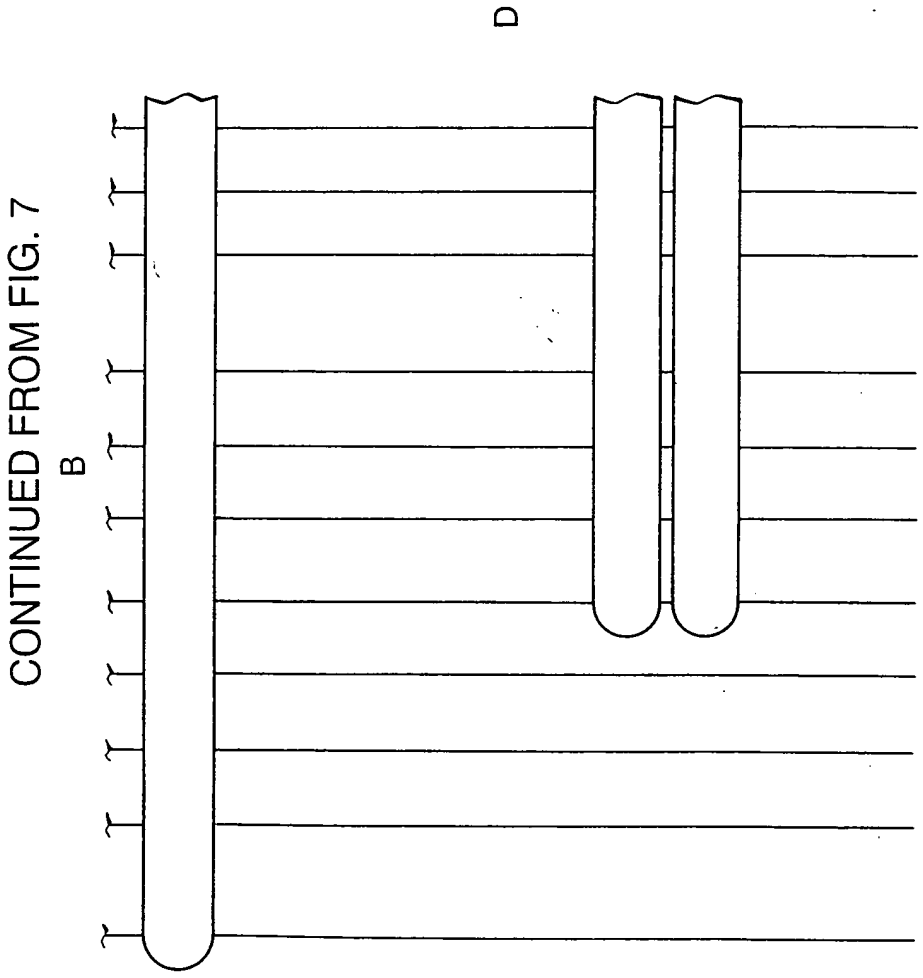
docket number

CONTINUED FROM FIG. 7



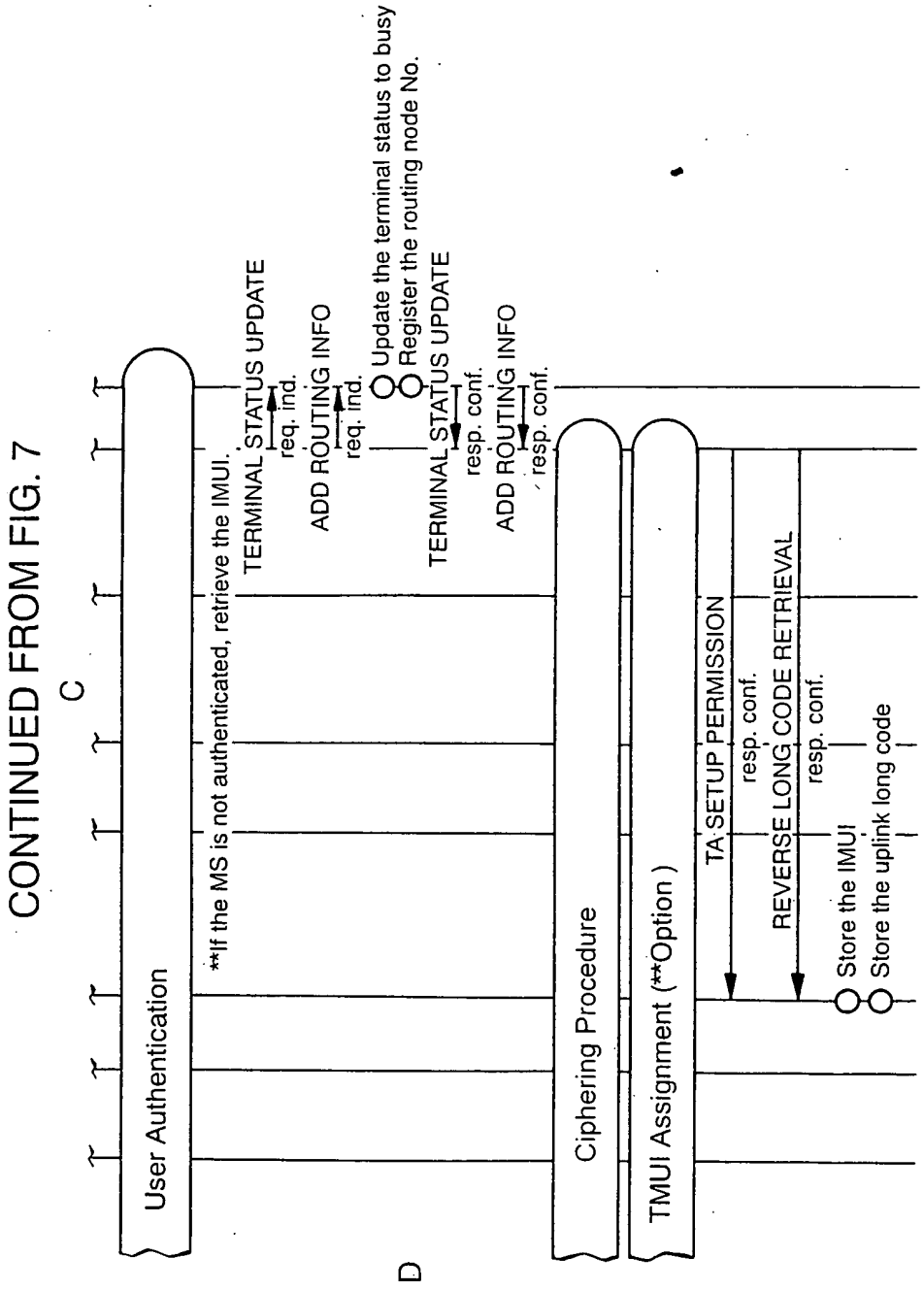
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DOCKET NO. 10/2/2000



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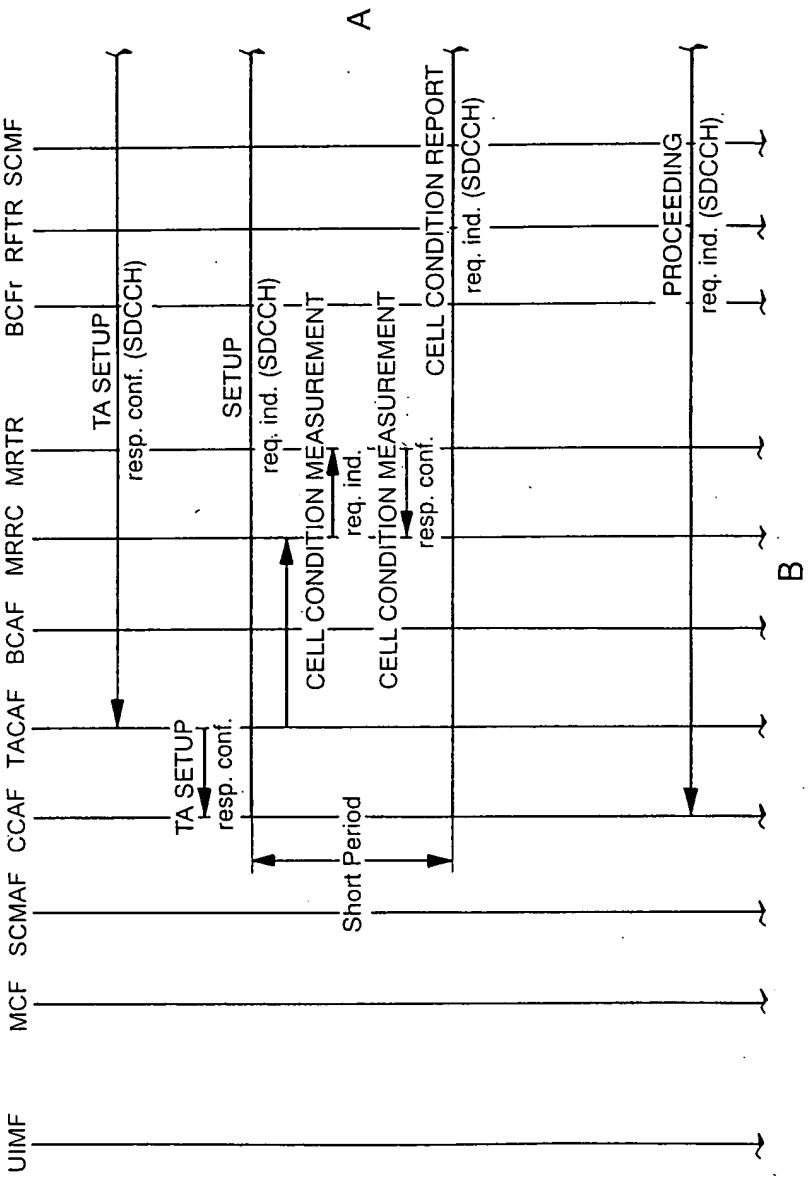
DOCID: TH6040



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FIG. 8

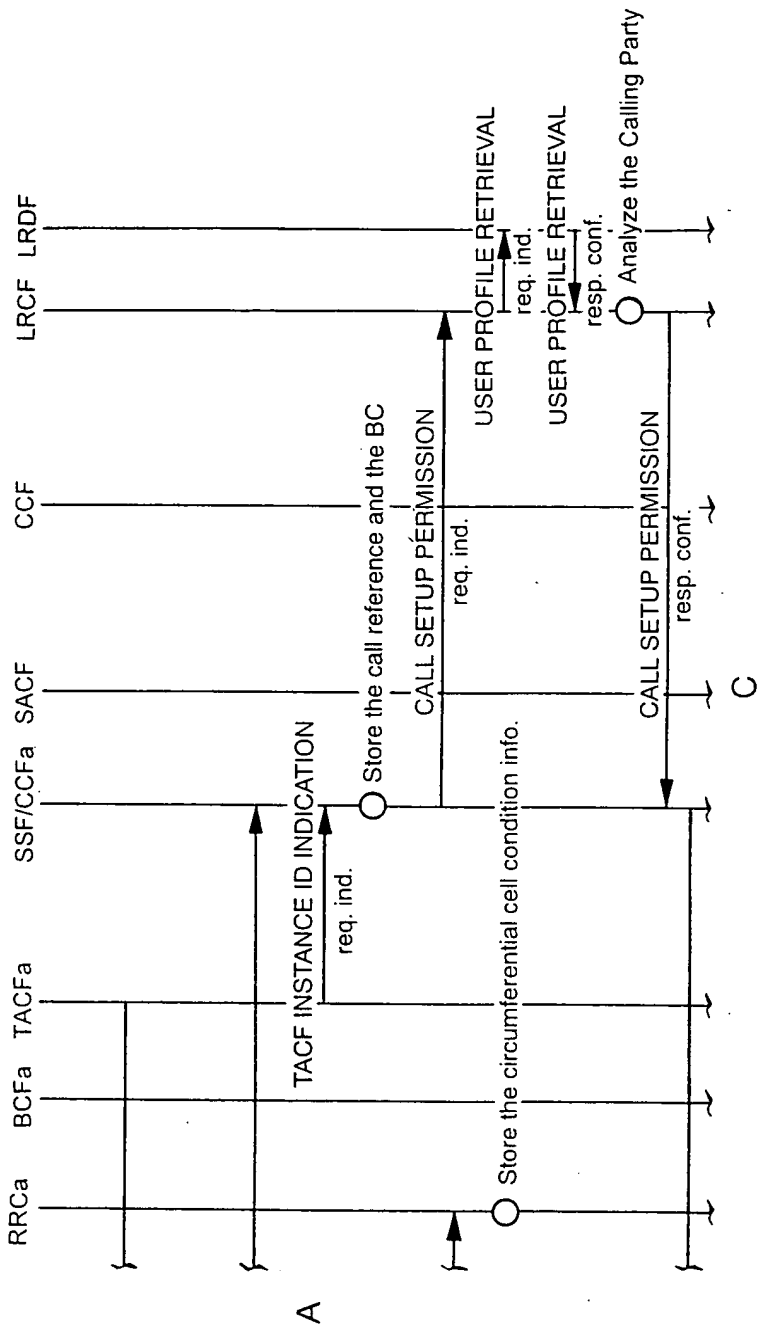


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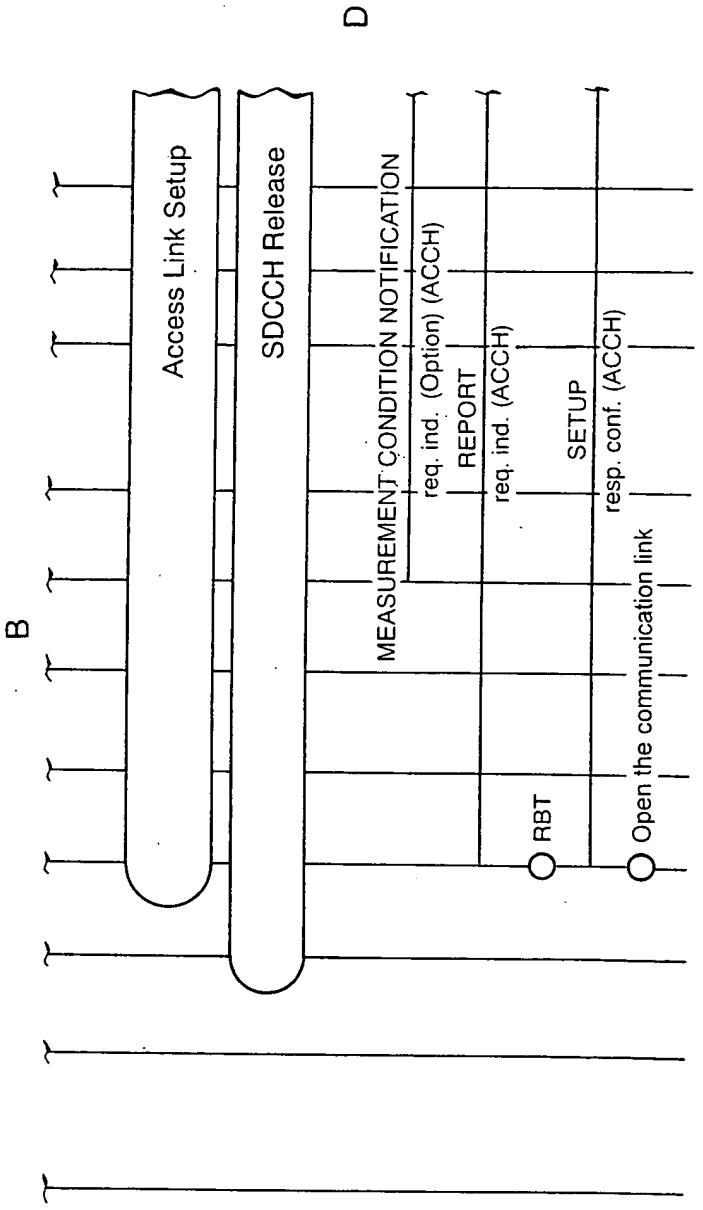
Docket Number

CONTINUED FROM FIG. 8



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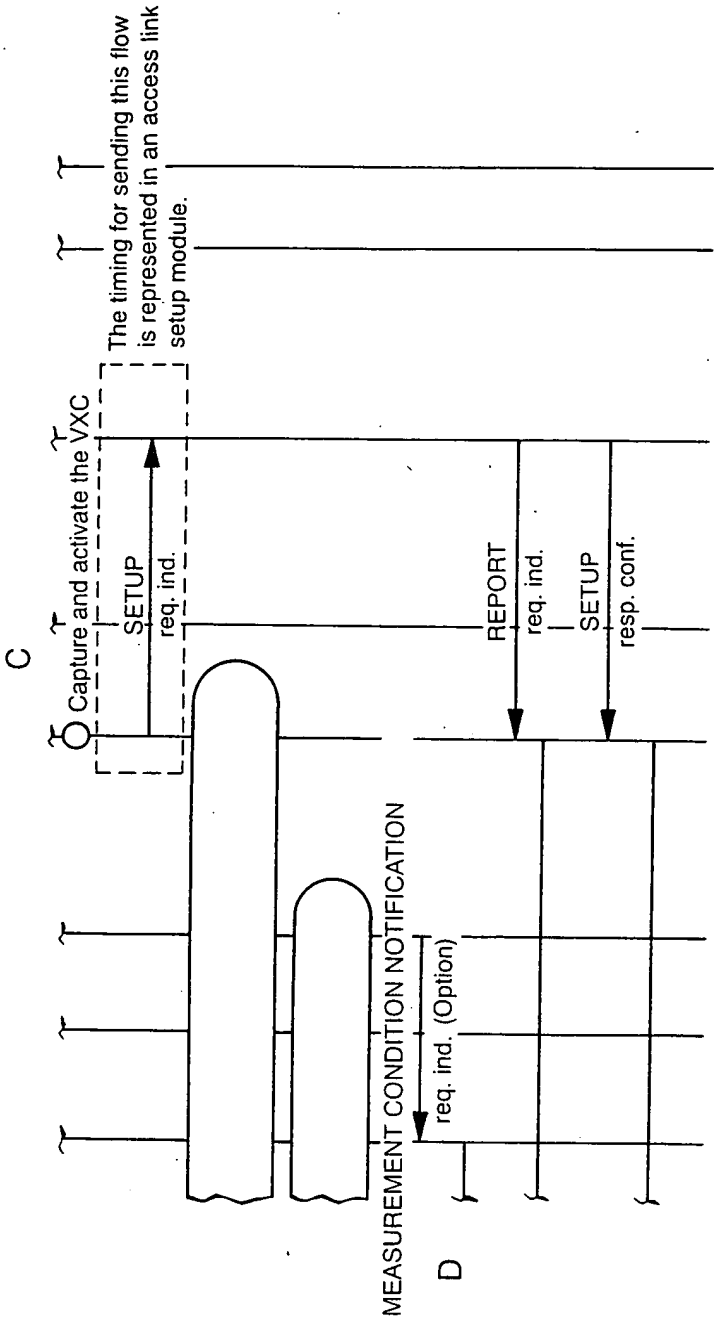
CONTINUED FROM FIG. 8



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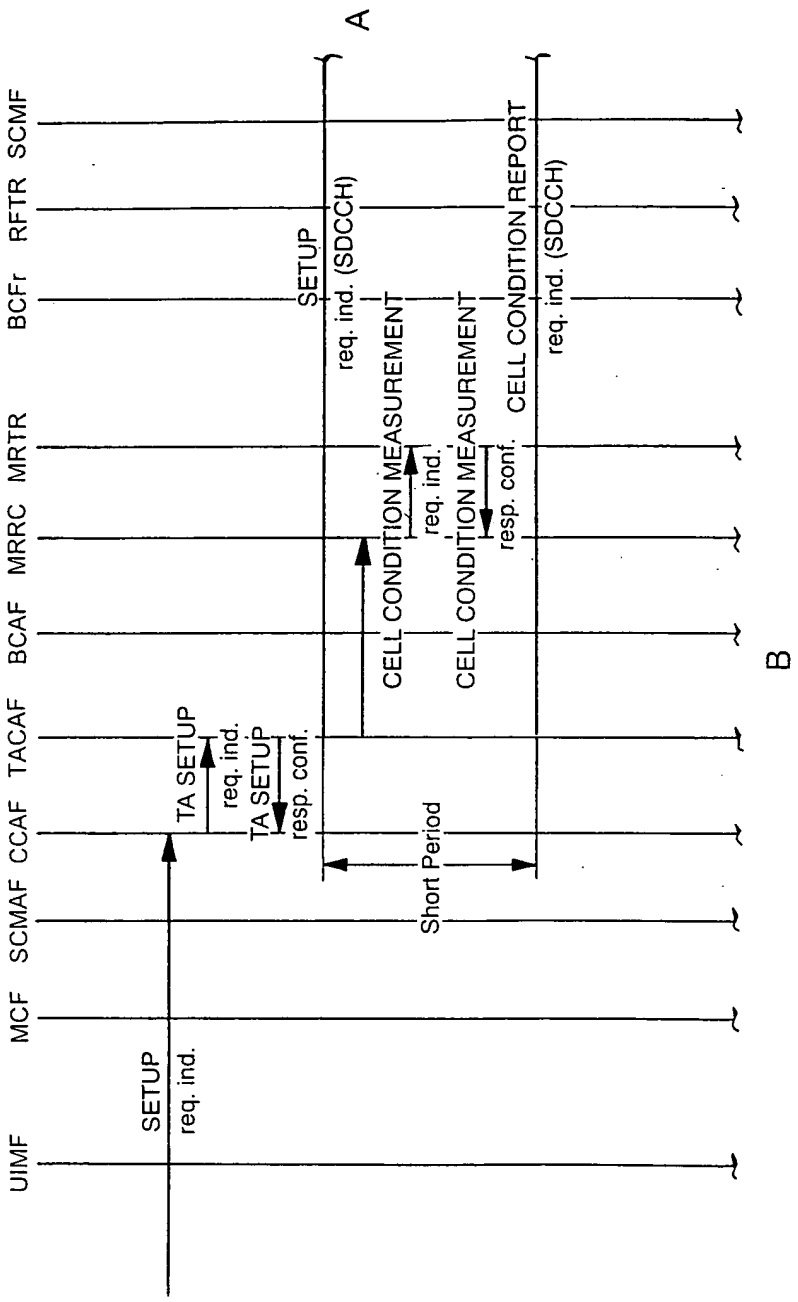
DOCKET TECHNO

CONTINUED FROM FIG. 8



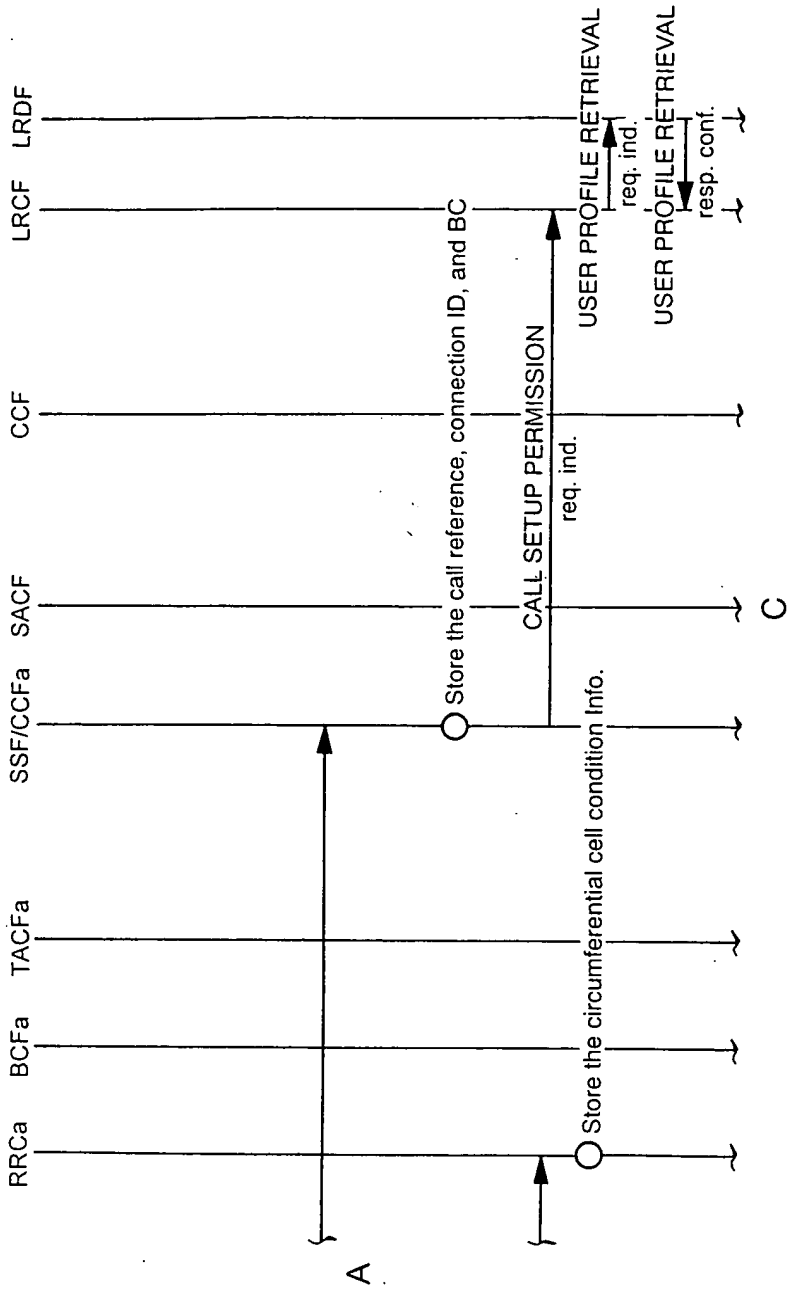
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FIG. 9



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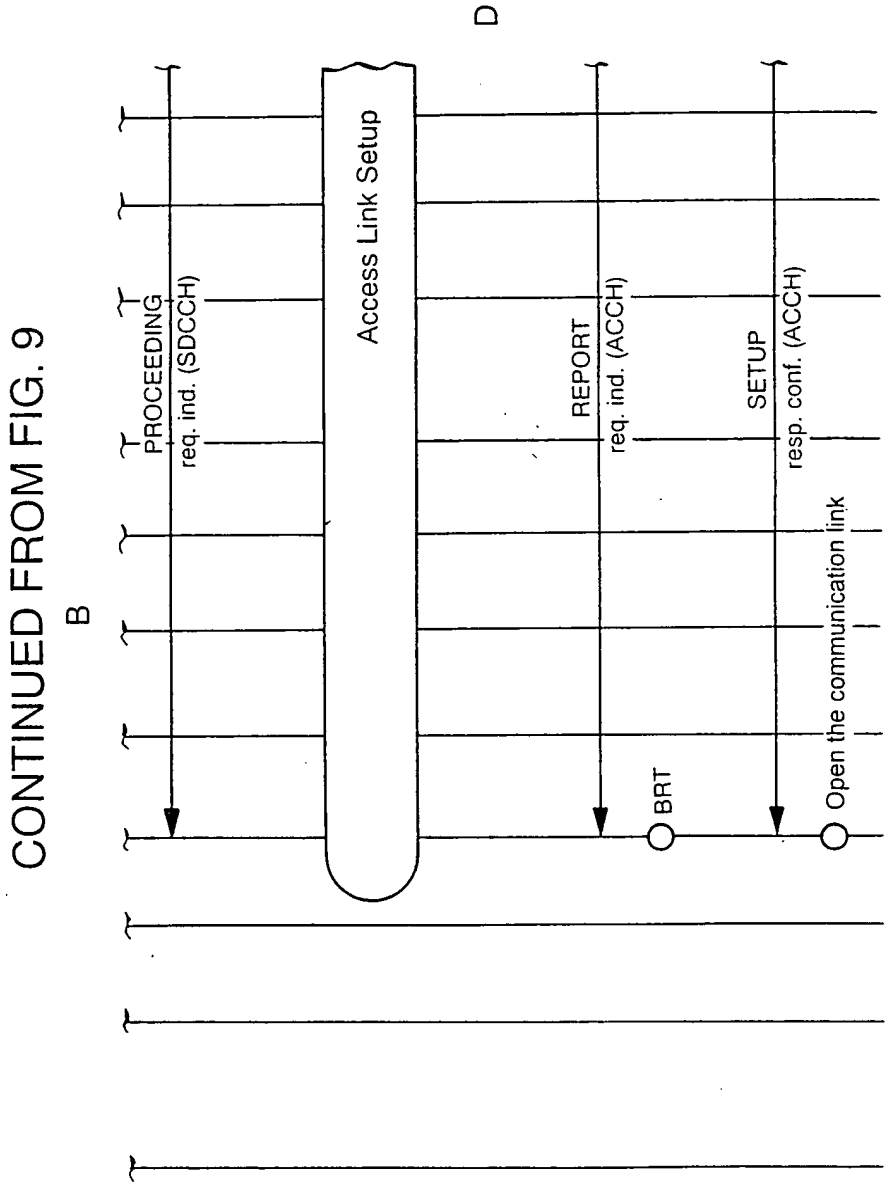
CONTINUED FROM FIG. 9



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amended

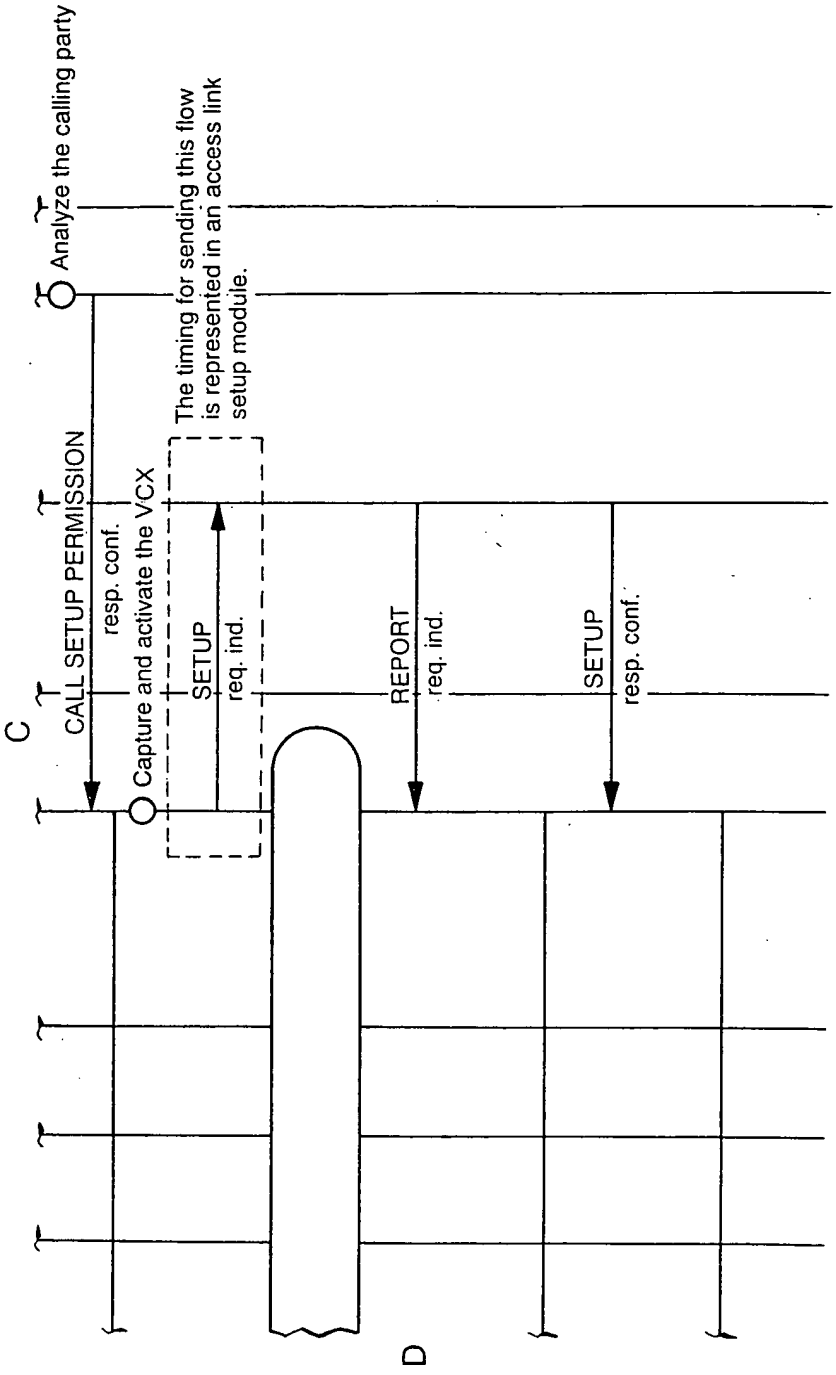
CONTINUED FROM FIG. 9



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CONTINUED FROM FIG. 9



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FIG. 10

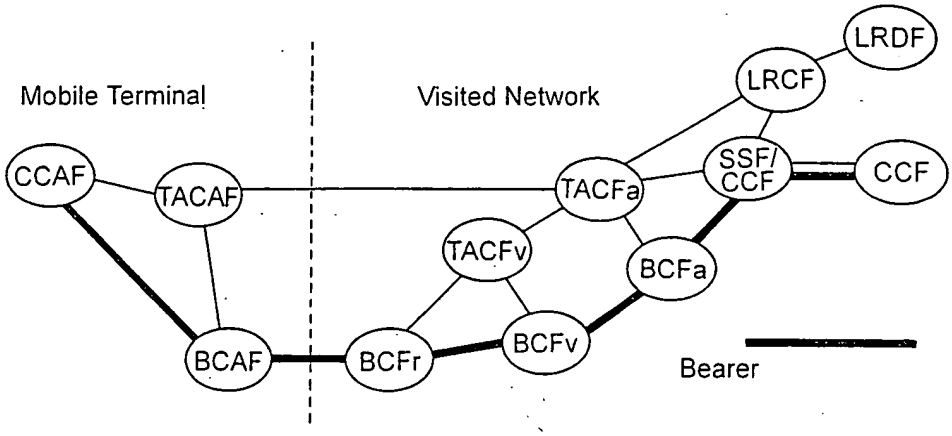
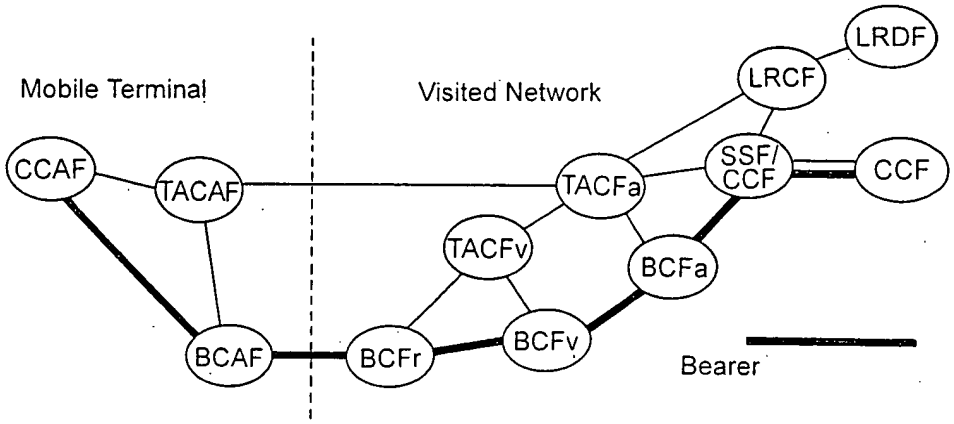


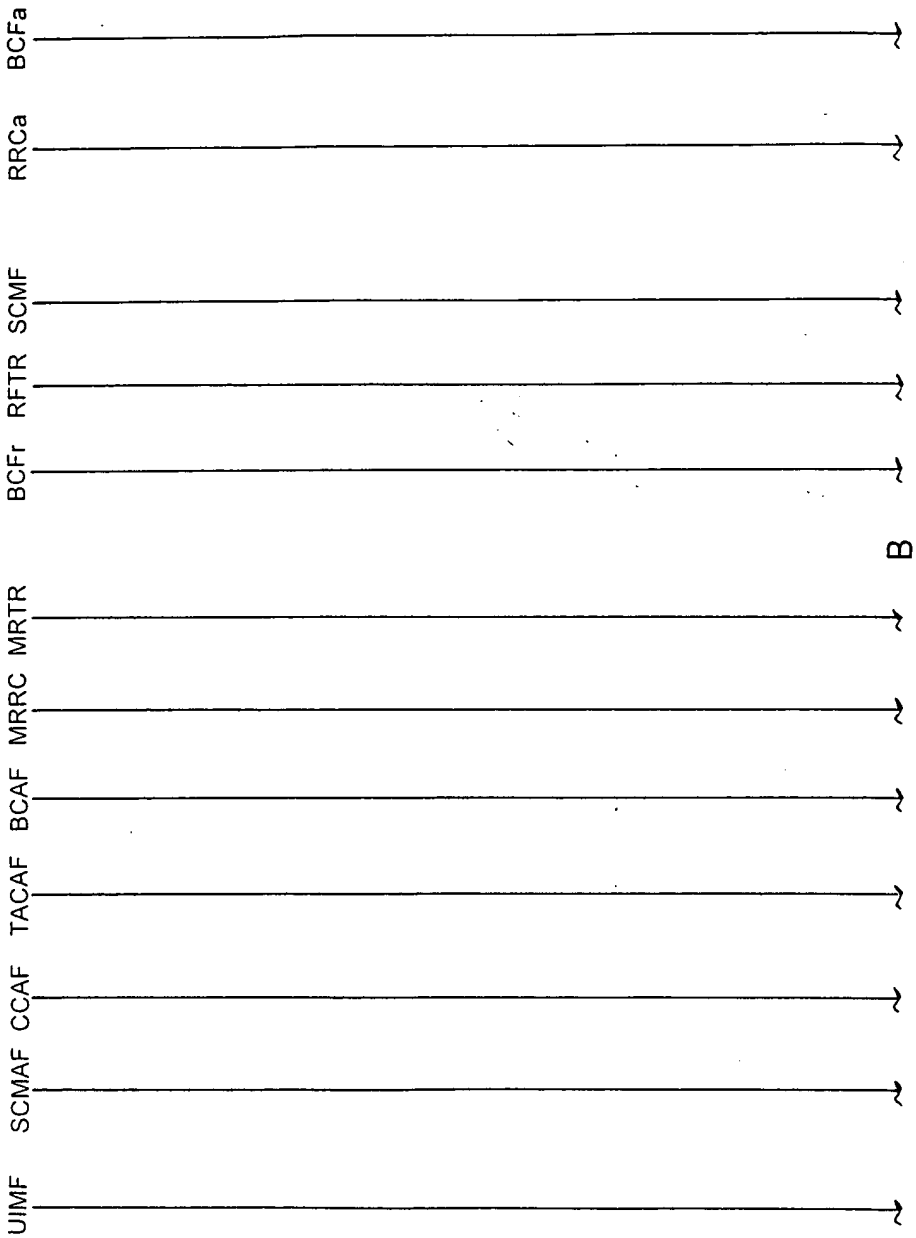
FIG. 11



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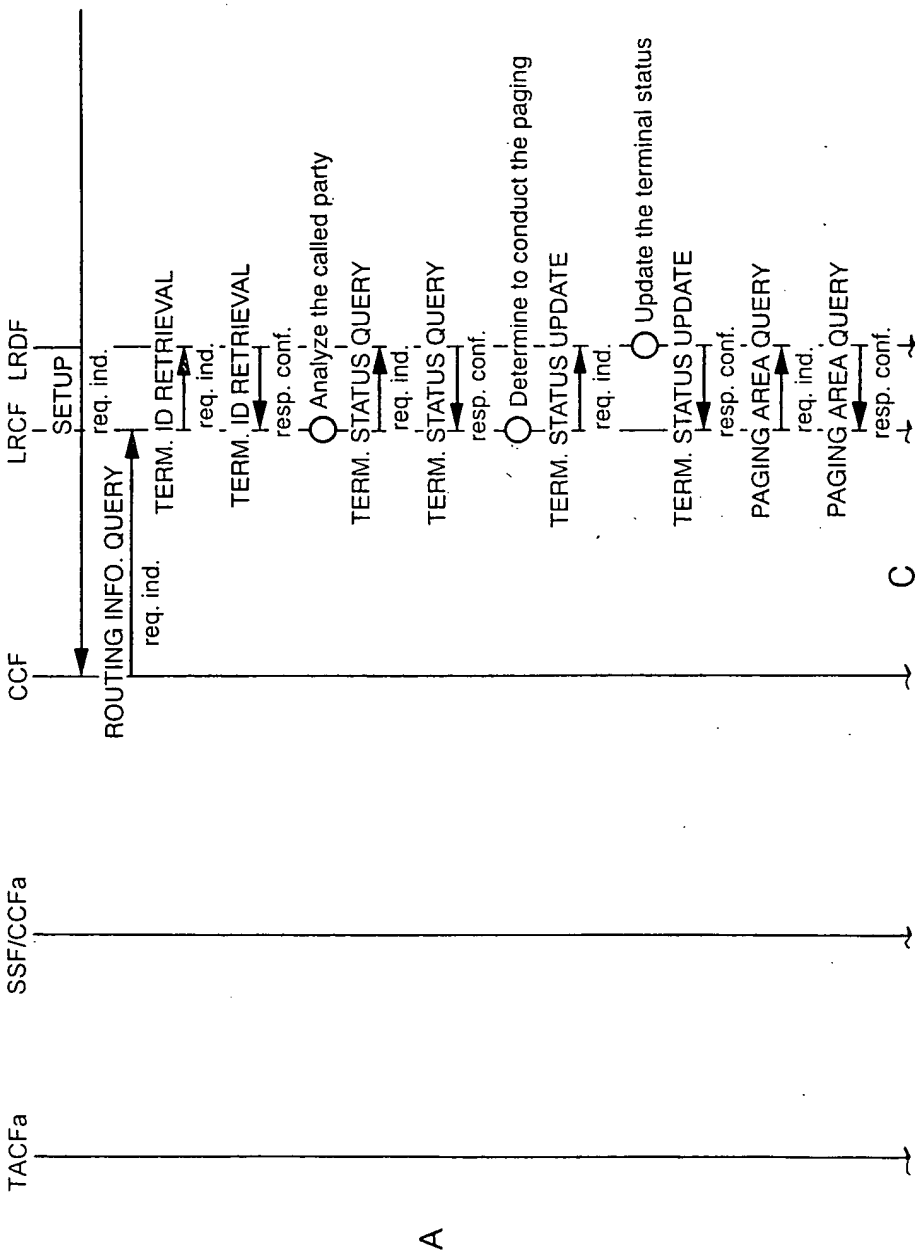
FIG. 12



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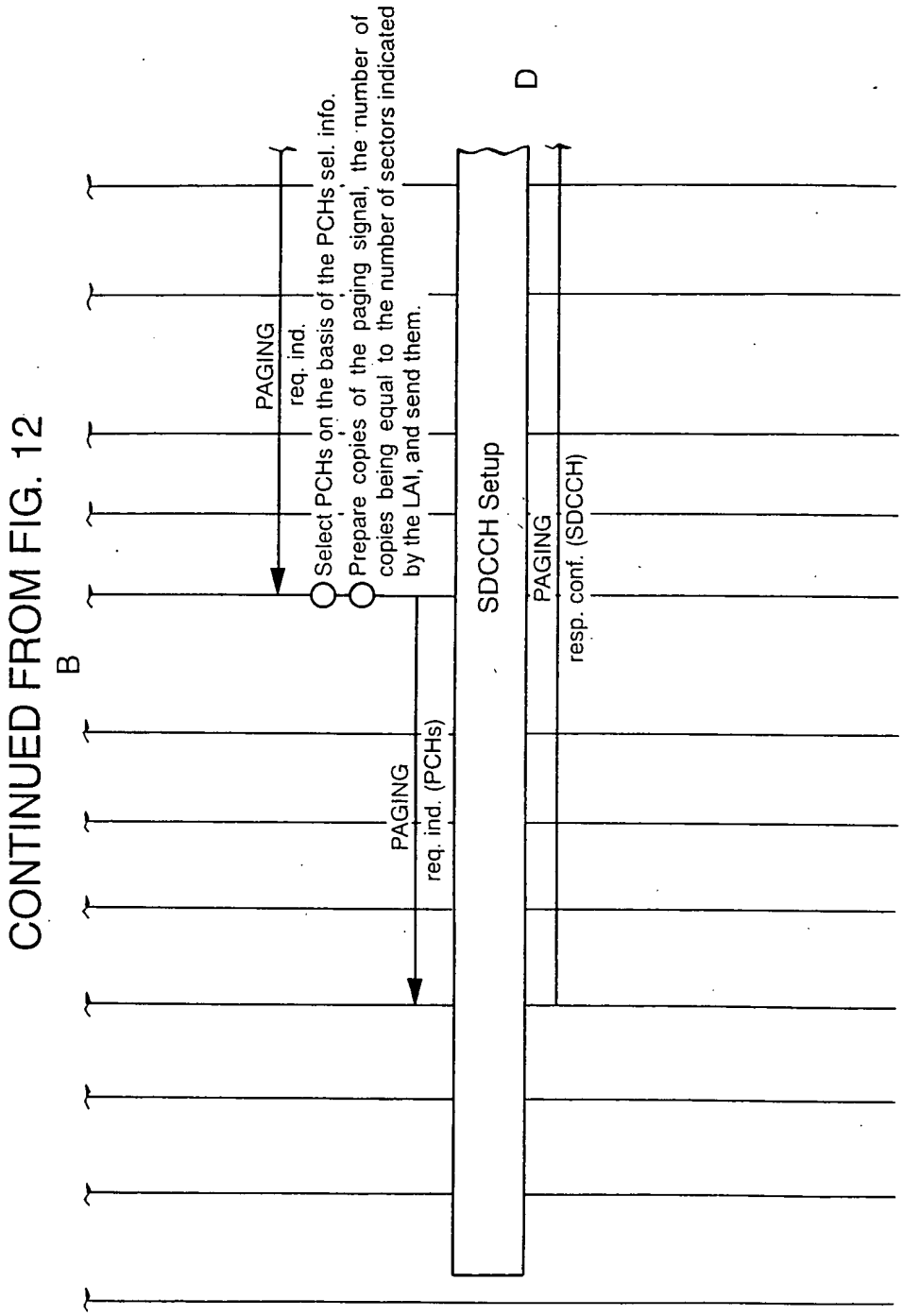
Amended Sheet

CONTINUED FROM FIG. 12



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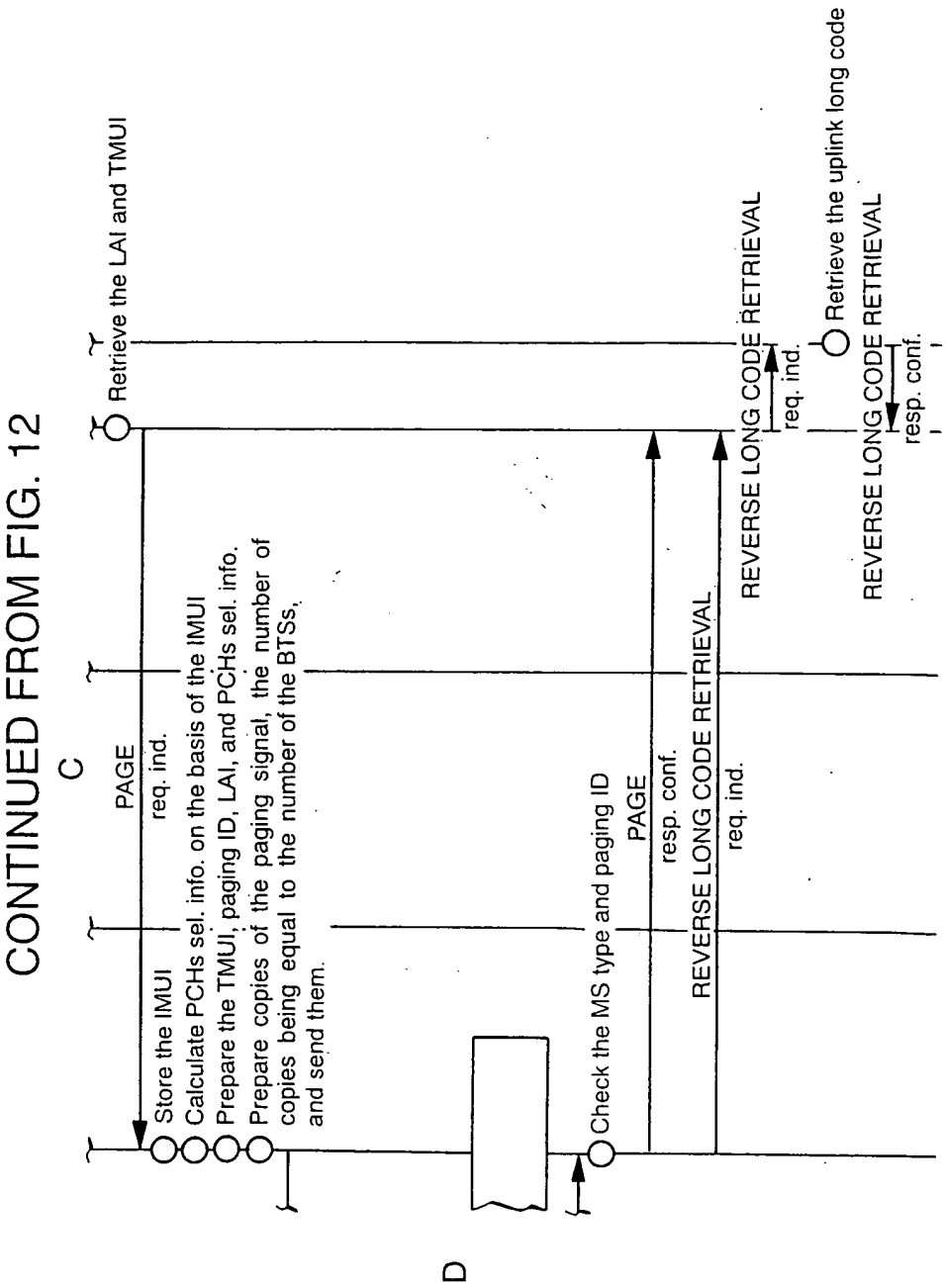
Docket Technology



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DOCKET, ALARM

CONTINUED FROM FIG. 12

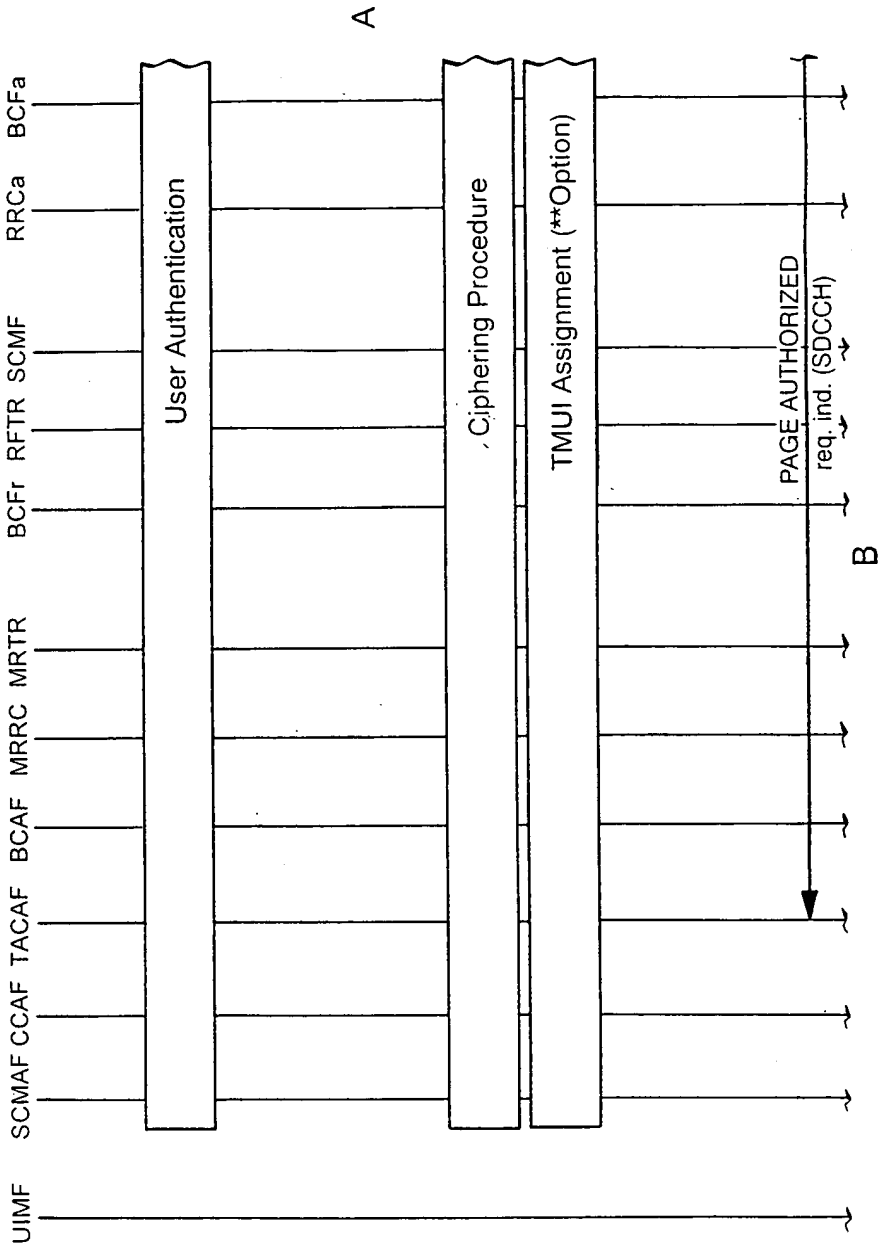


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09/405451 "Created"

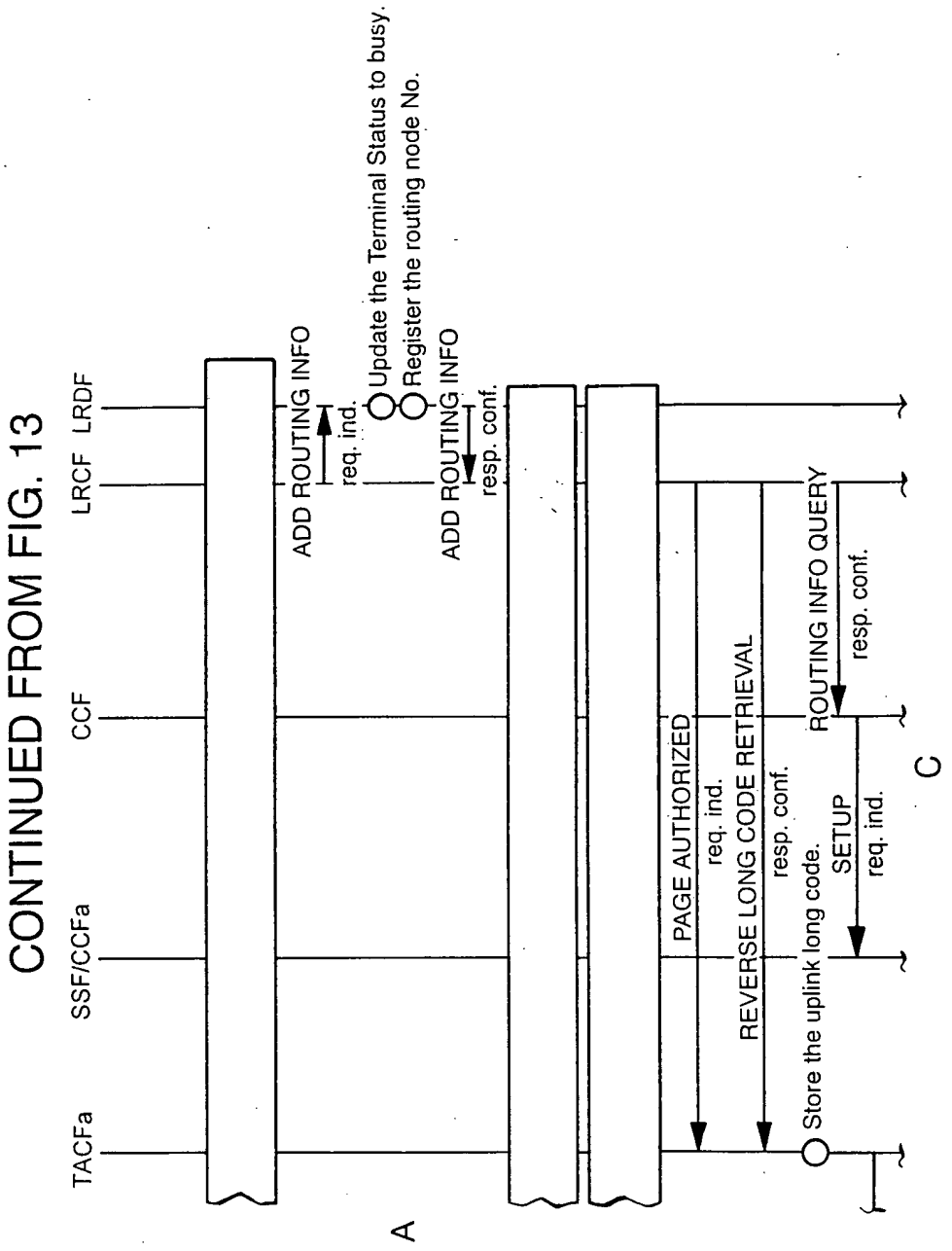
FIG. 13



PRINT OF DRAWINGS
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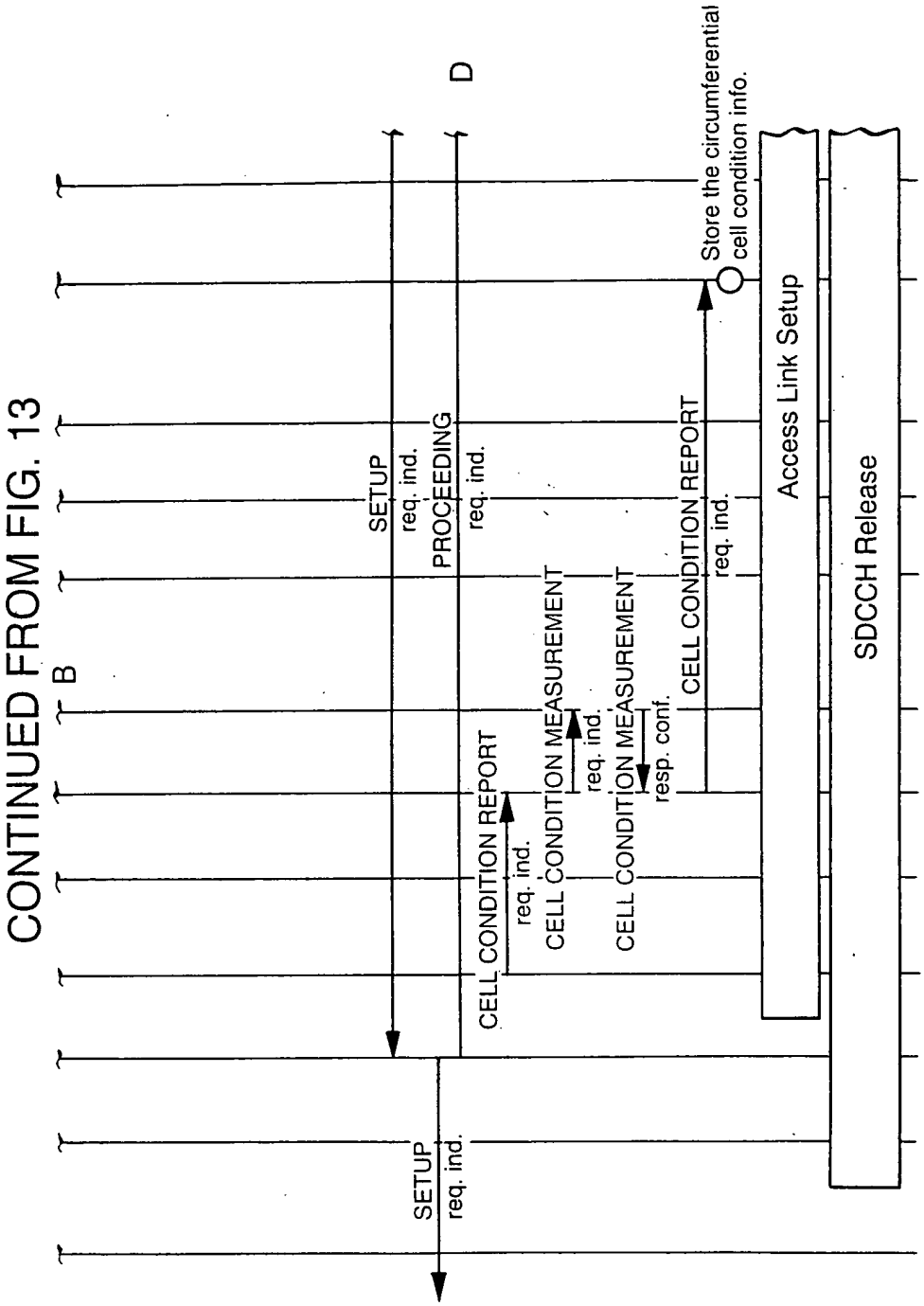
DOCID: "EP0962076A1"

CONTINUED FROM FIG. 13



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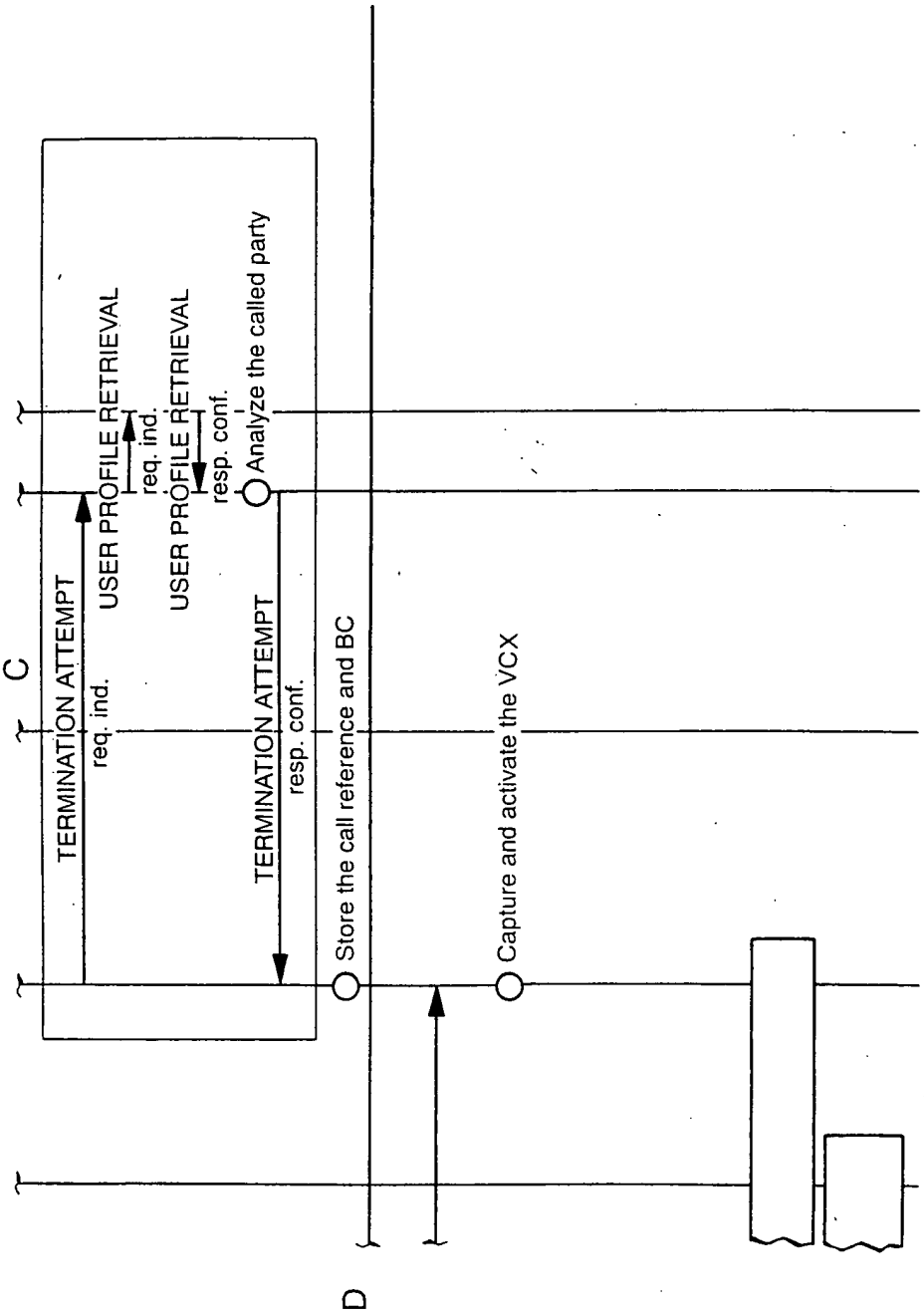
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AS ORIGINALLY FILED

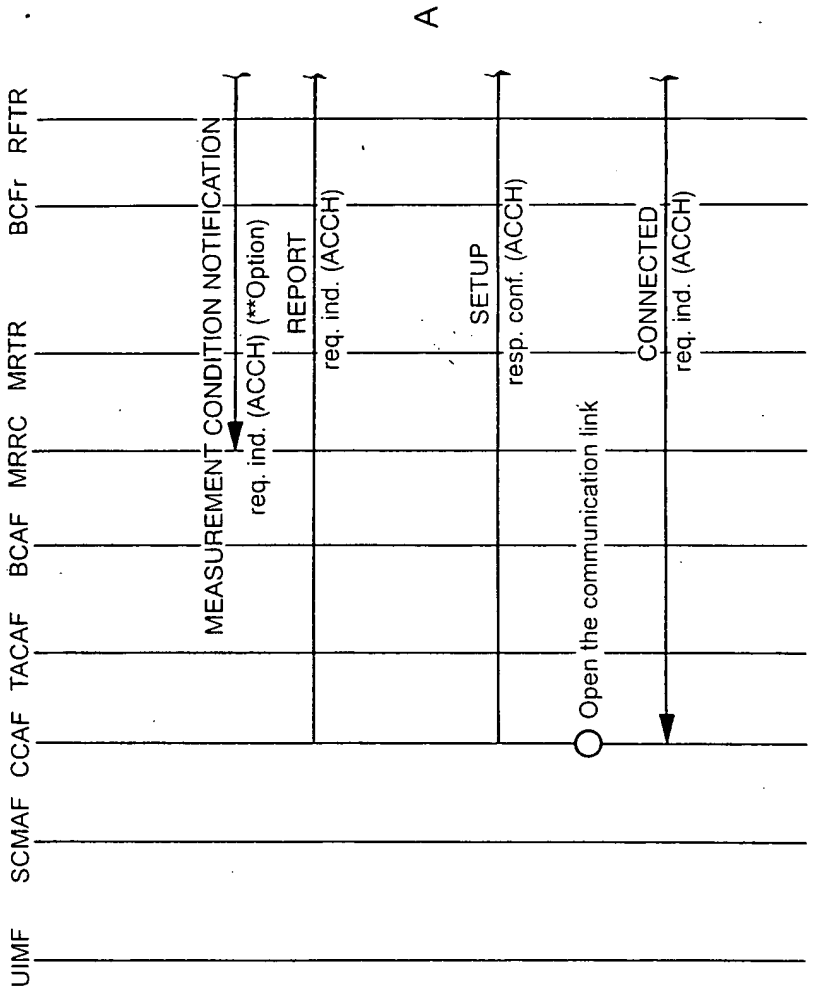
09403431 "Filed"

CONTINUED FROM FIG. 13



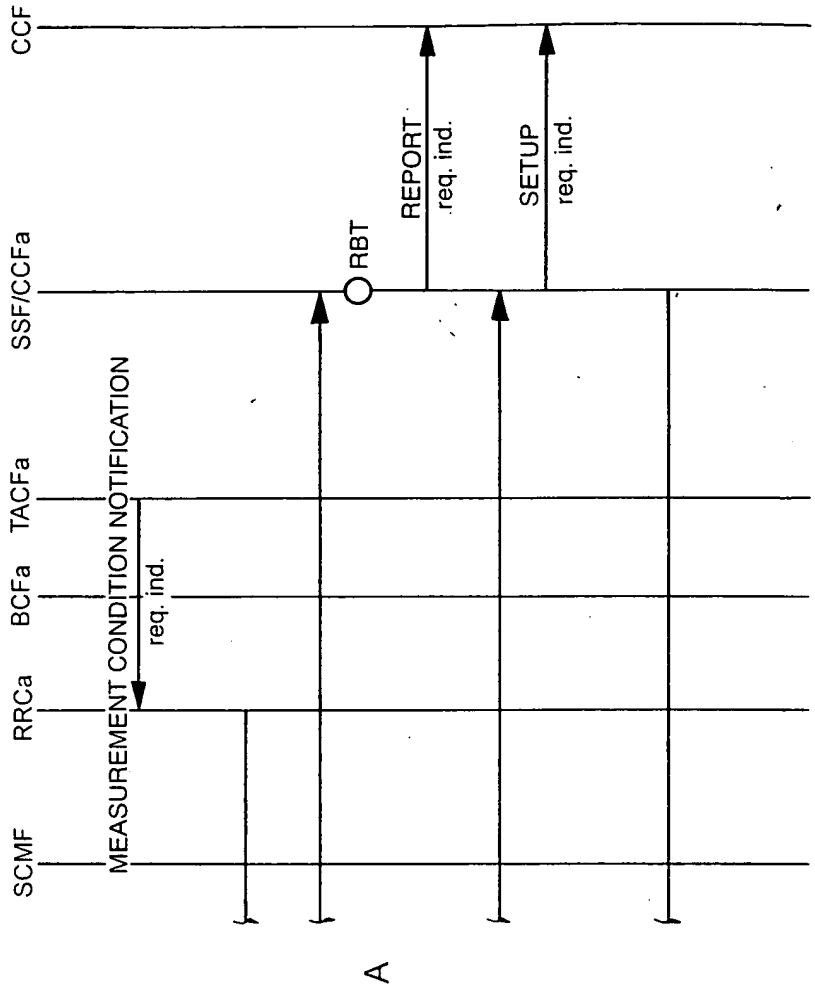
PRINT OF DRAWINGS
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FIG. 14



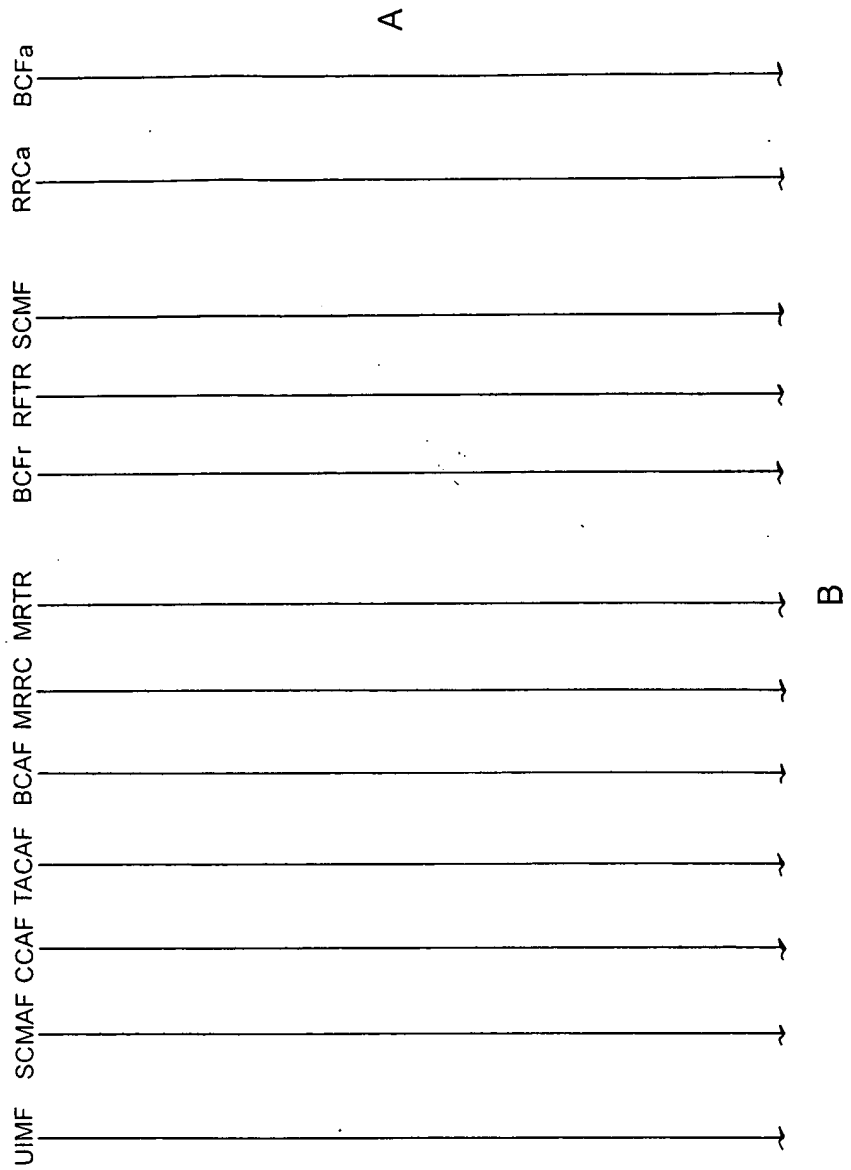
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CONTINUED FROM FIG. 14



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FIG. 15

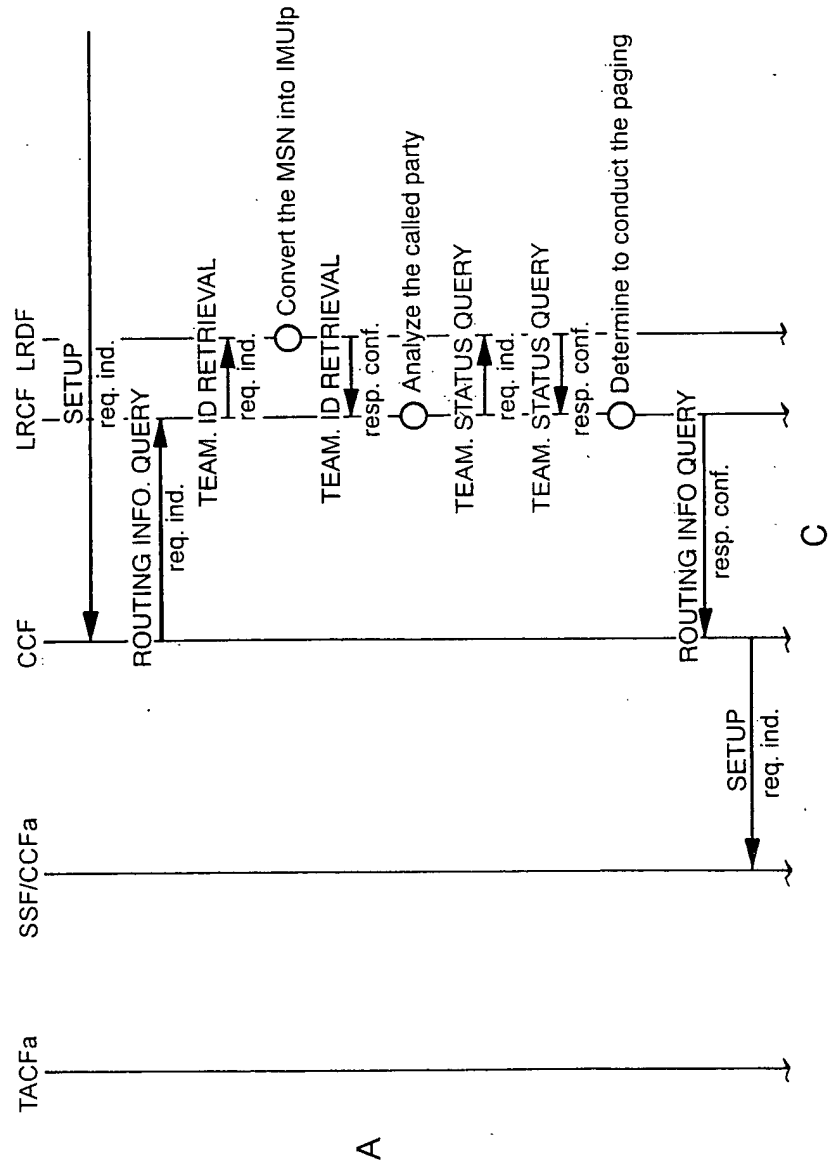


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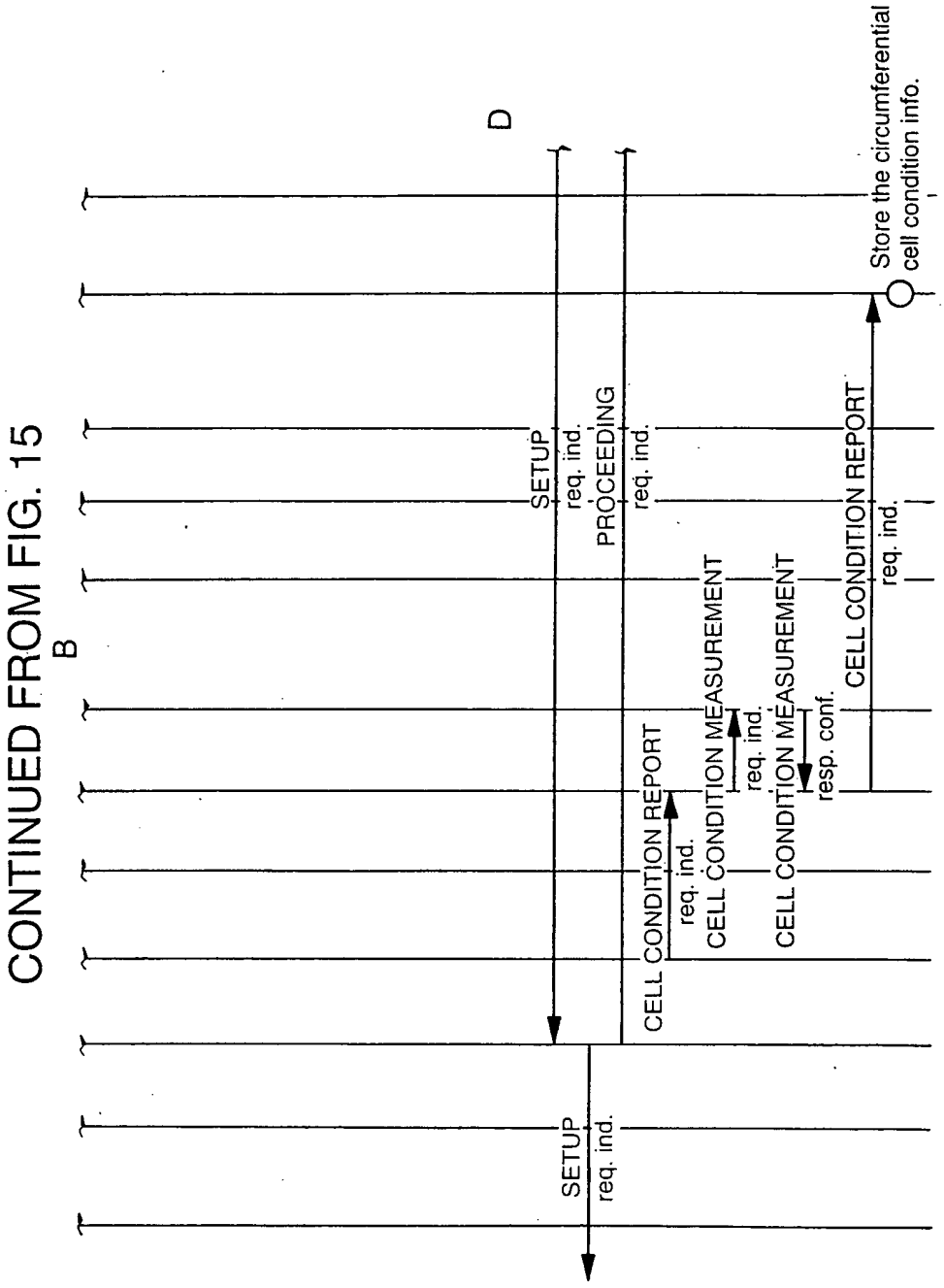
09/403431

09403431 "Tue Oct 10

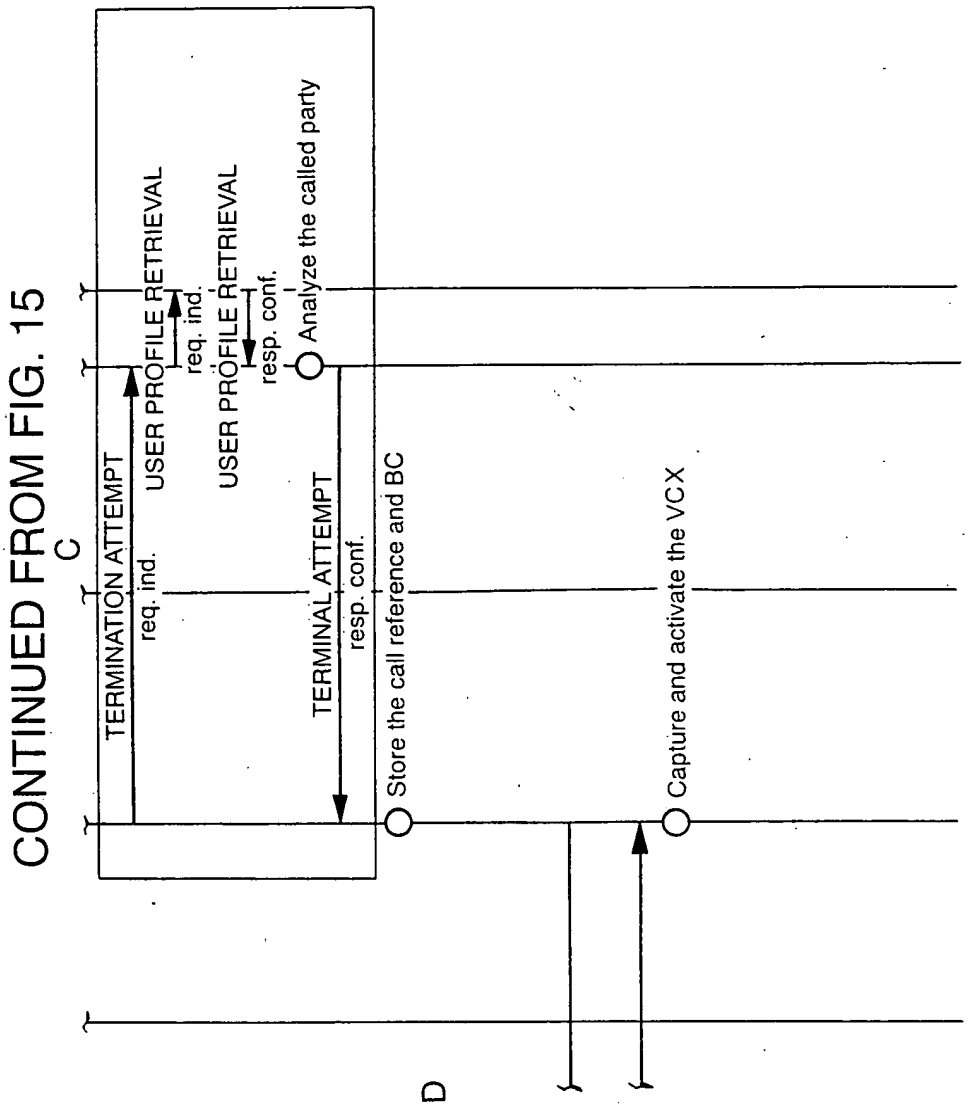
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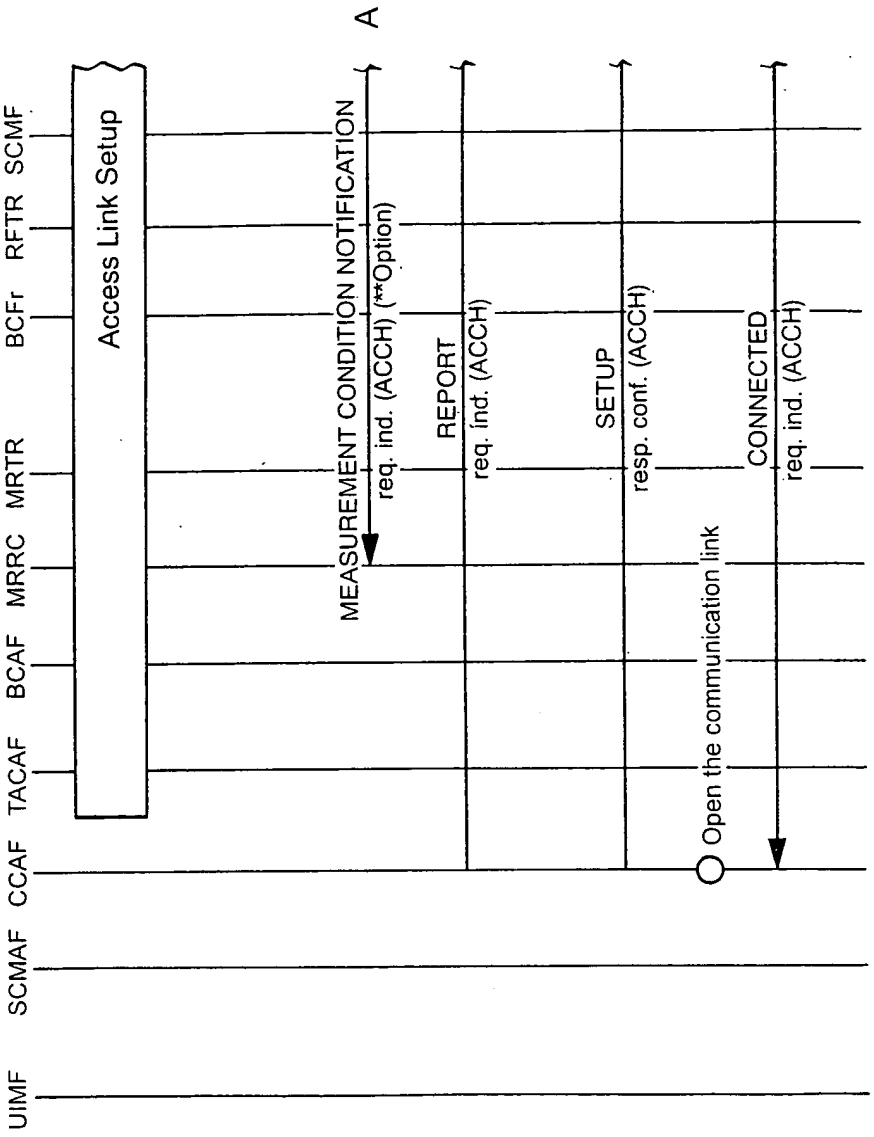
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PRINT OF DRAWINGS
AS ORIGINALLY FILED

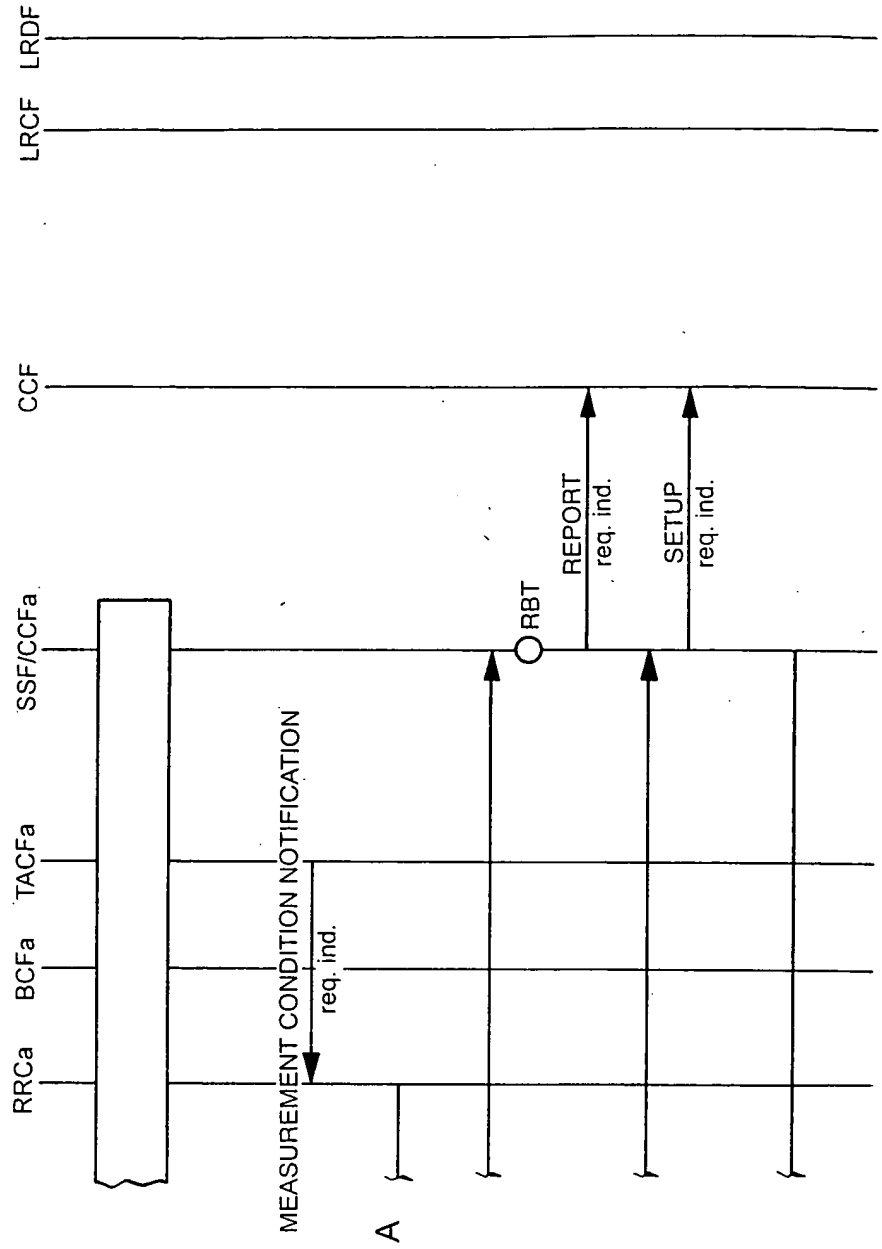
"Express Mail" Label No.

FIG. 16



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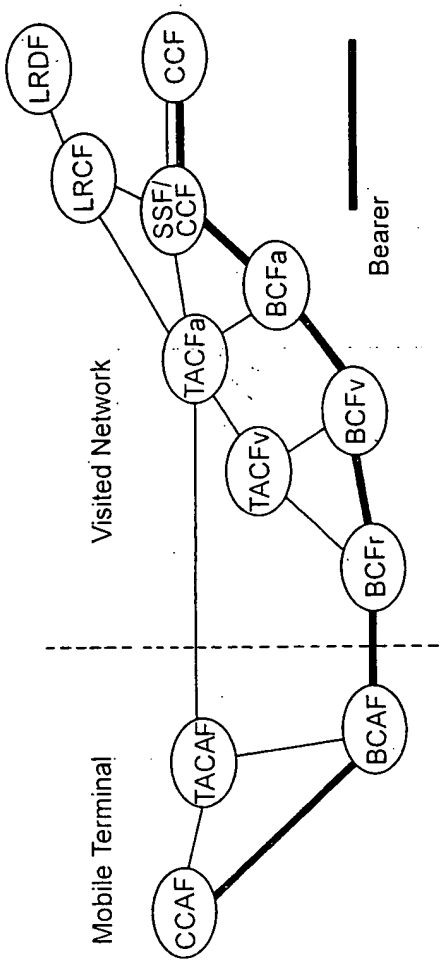
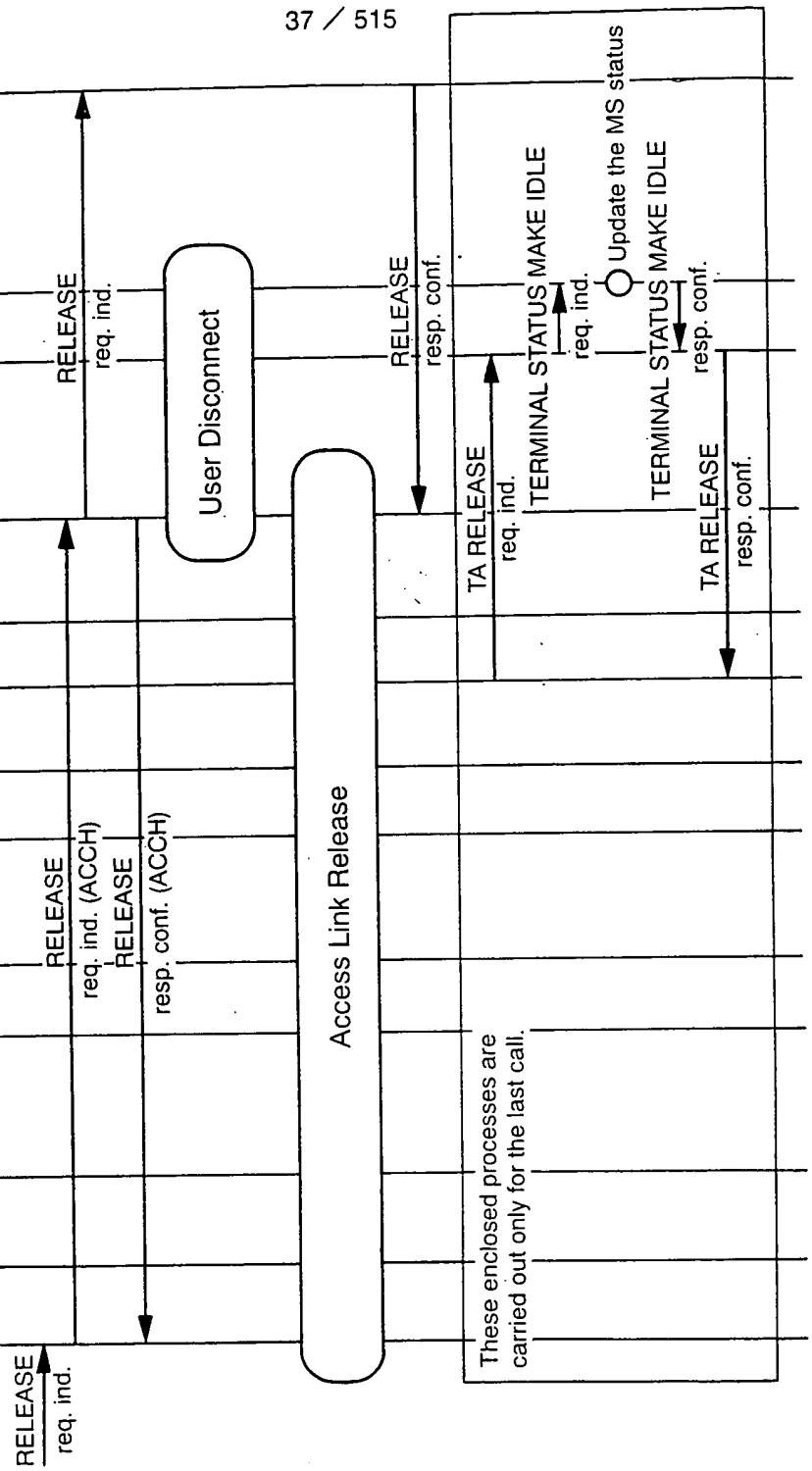


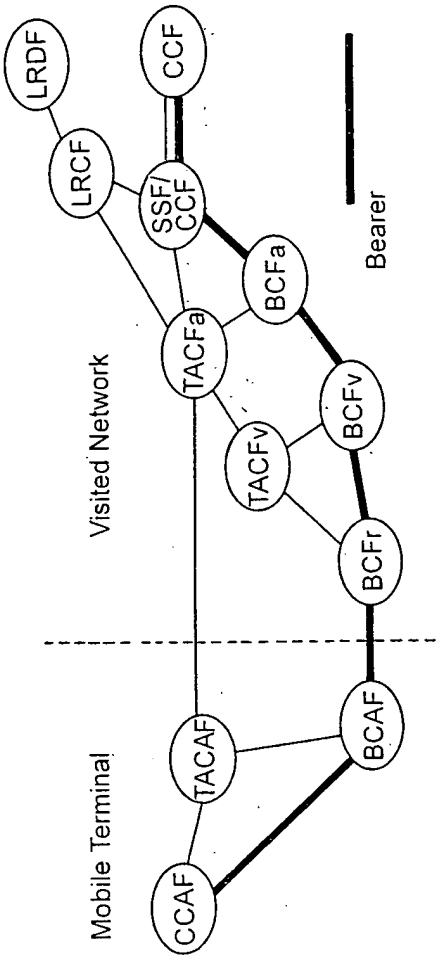
FIG. 17

FIG. 18


CCF
LRDF
LRCF
SSF/CCF
BCFa
TACFa
BCFv
TACFv
RFTR
BCFr
BCAF
TACAF
CCAF
RELEASE
req. ind.
RELEASE
req. ind. (ACCH)
RELEASE
resp. conf. (ACCH)
User Disconnect
Access Link Release
RELEASE
resp. conf.
TA RELEASE
req. ind.
TERMINAL STATUS MAKE IDLE
req. ind.
Update the MS status
TERMINAL STATUS MAKE IDLE
resp. conf.
TA RELEASE
resp. conf.
These enclosed processes are carried out only for the last call.

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FIG. 19



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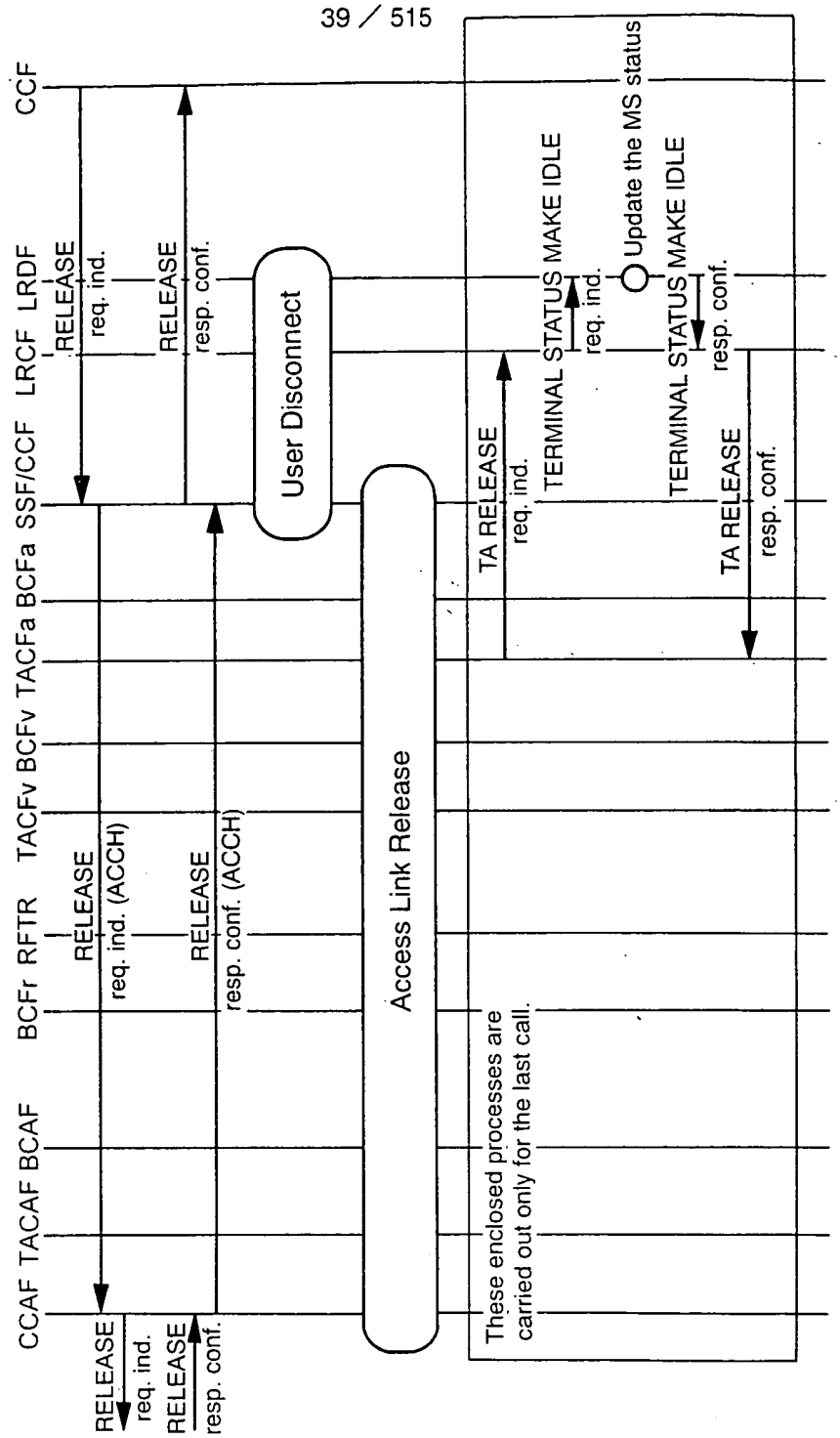
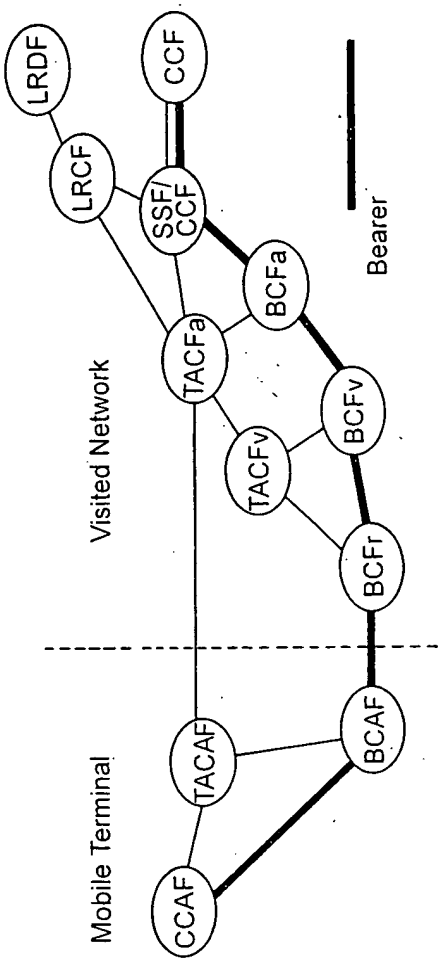


FIG. 20

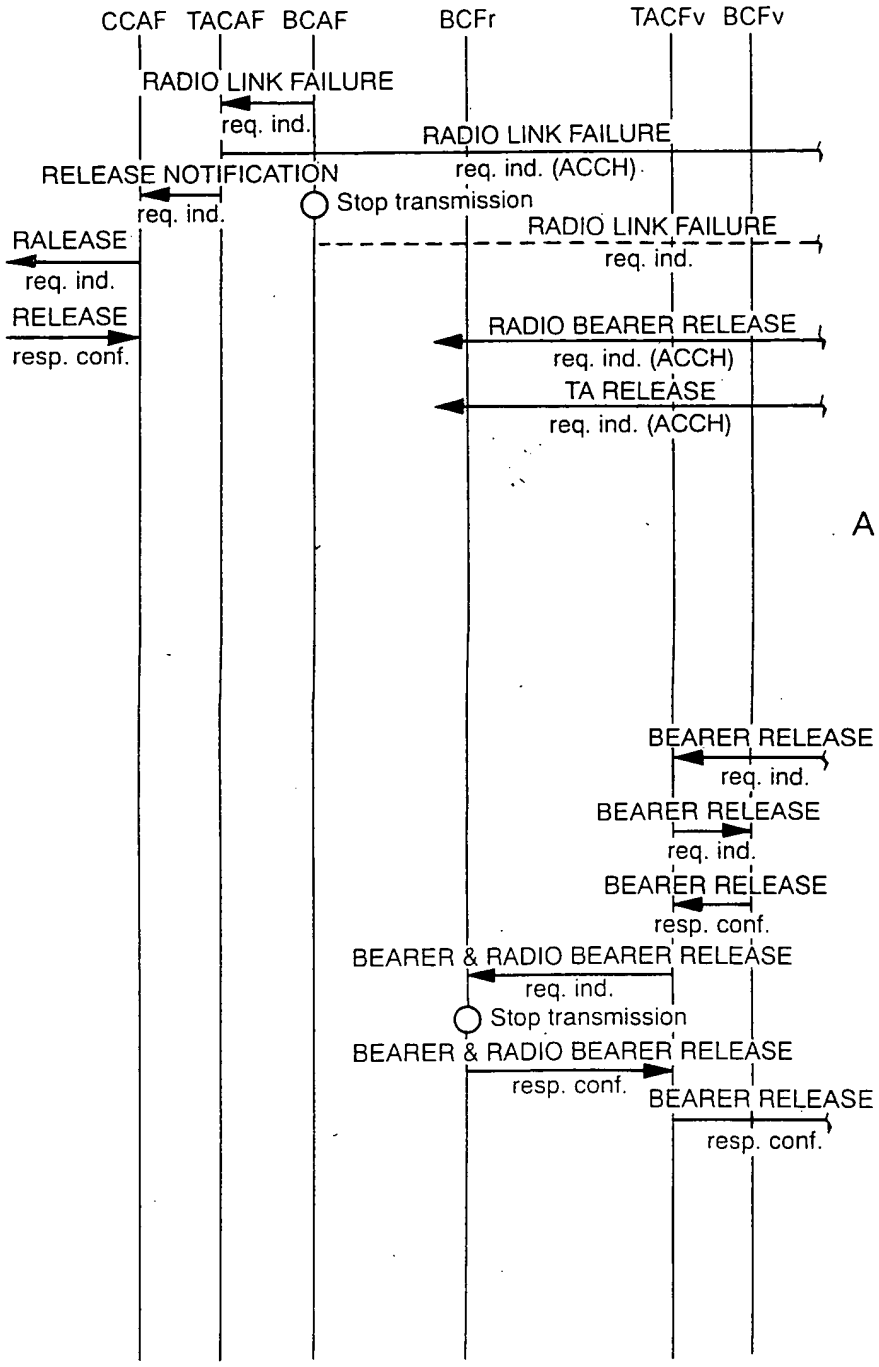
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FIG. 21



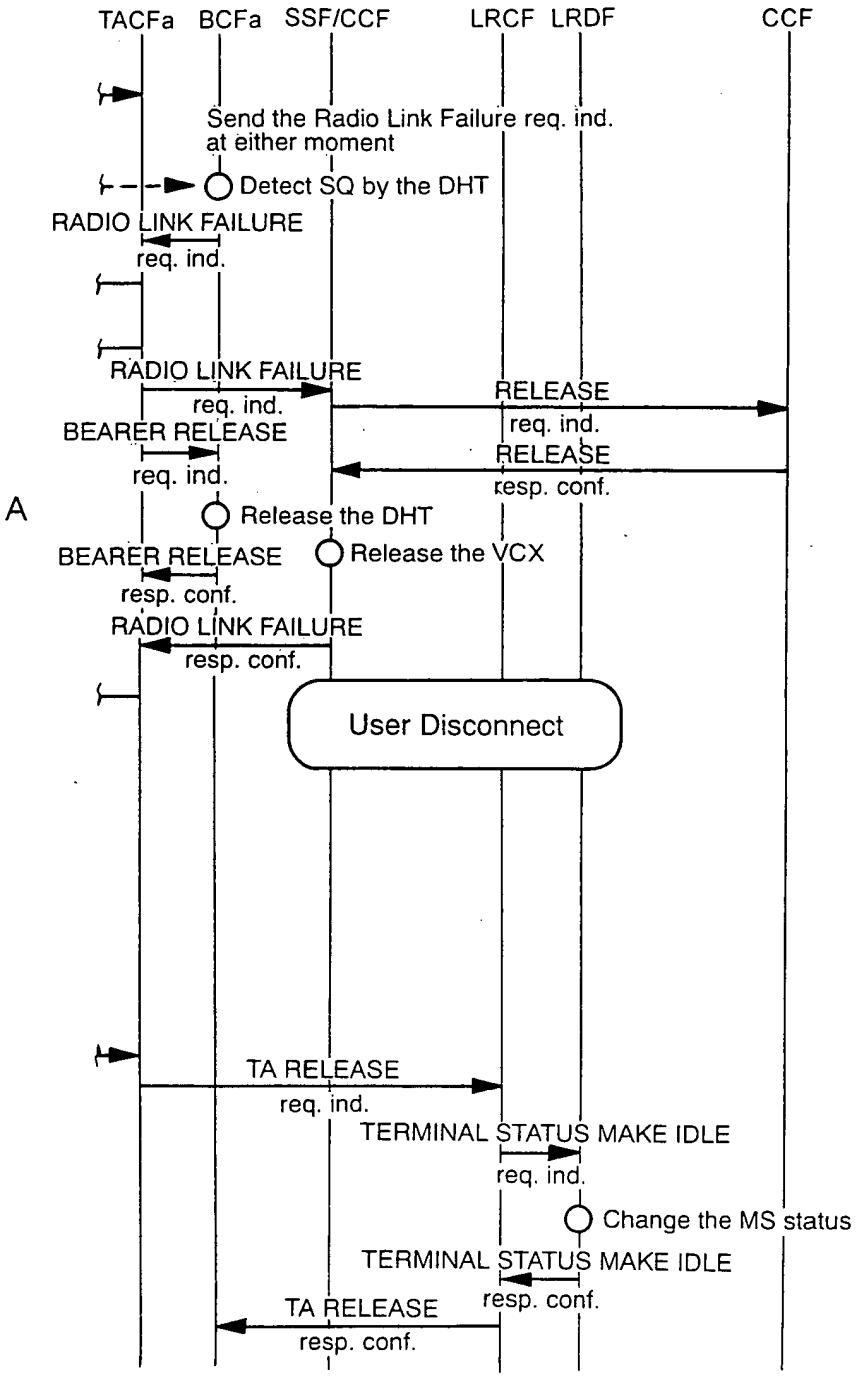
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FIG. 22



PRINT OF DRAWINGS
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CONTINUED FROM FIG. 22



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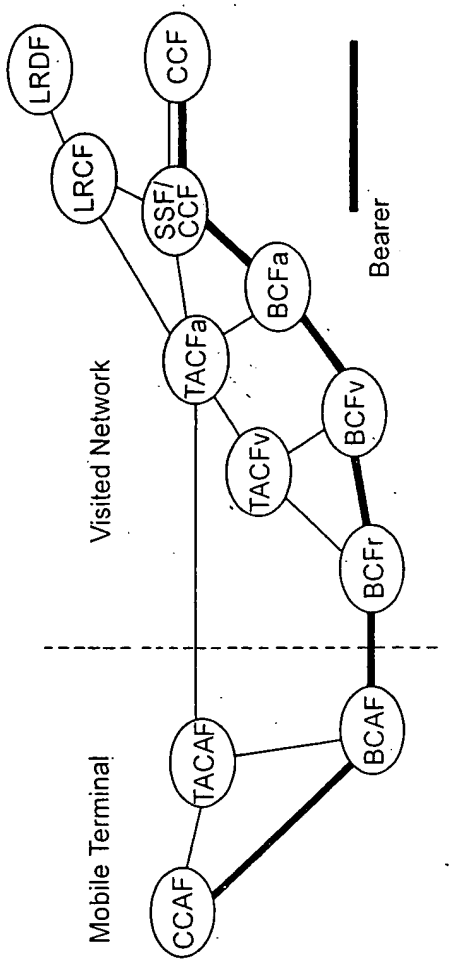
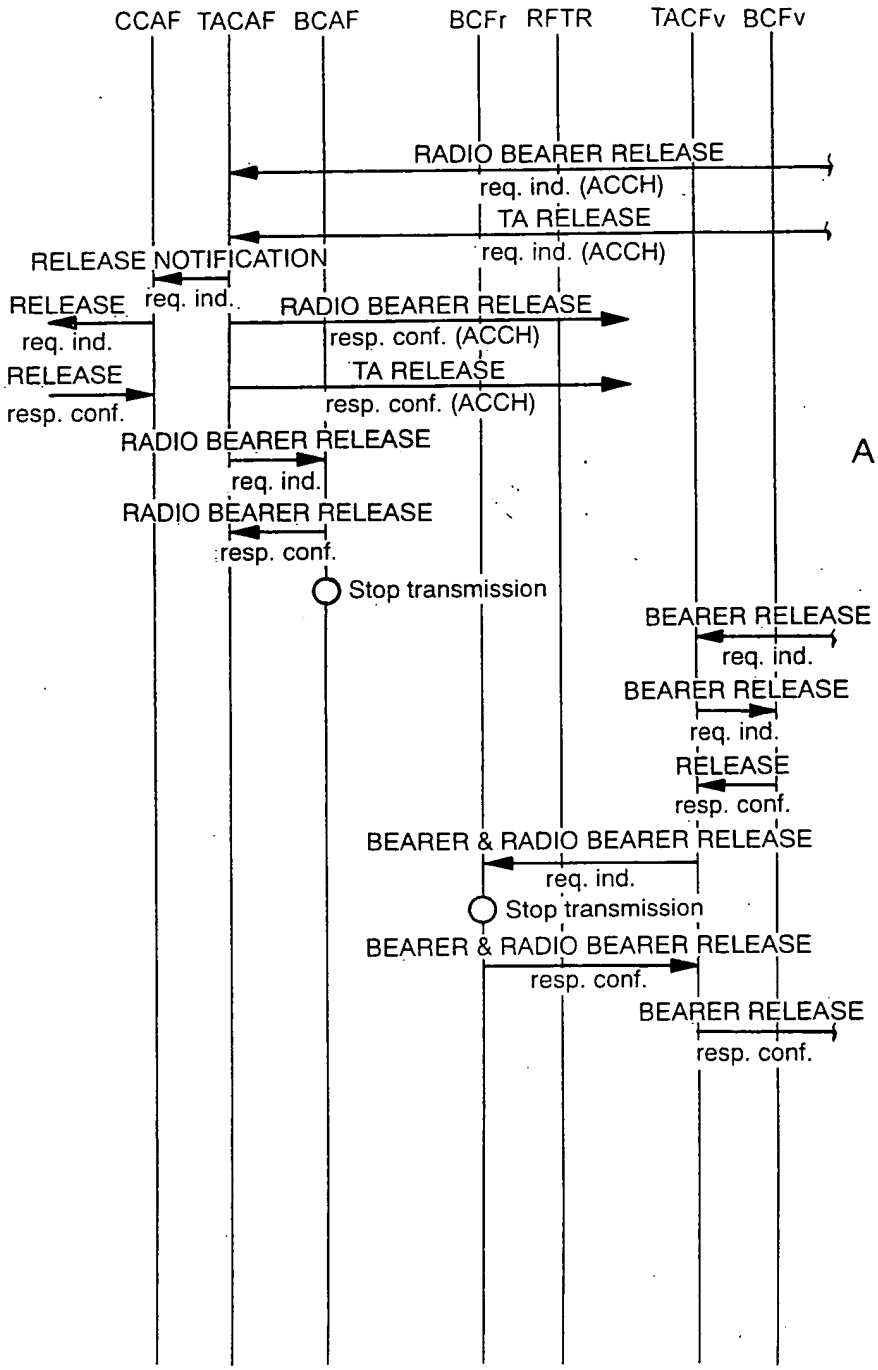


FIG. 23

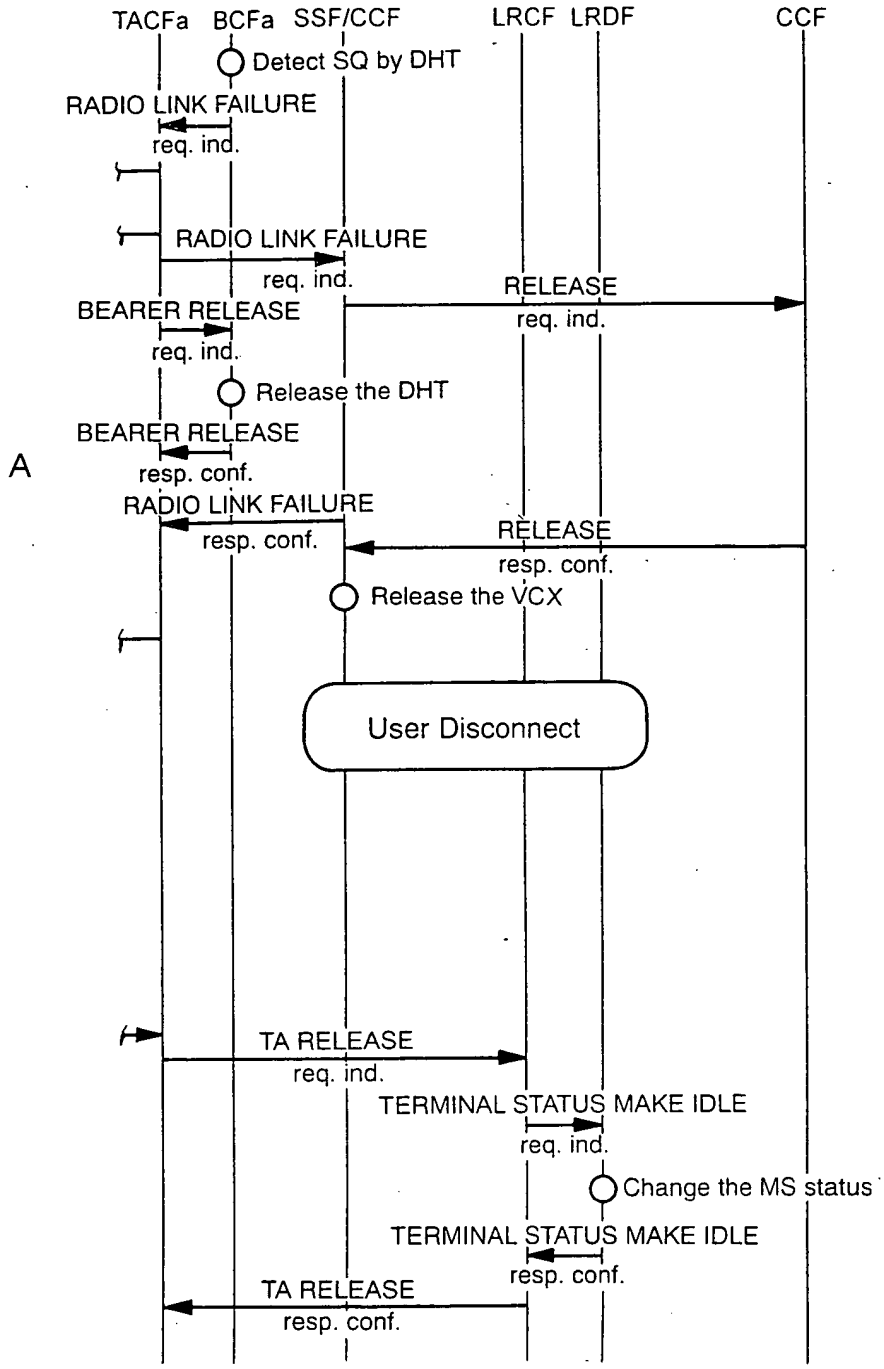
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FIG. 24



PRINT OF DRAWINGS
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CONTINUED FROM FIG. 24



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FIG. 25

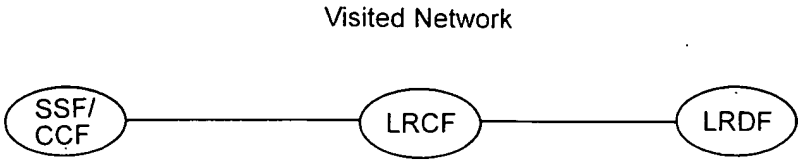


FIG. 26

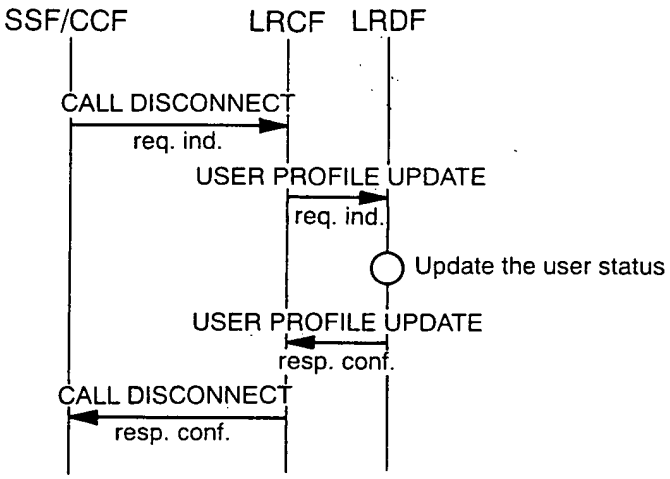
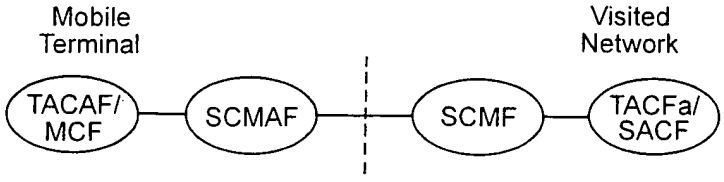
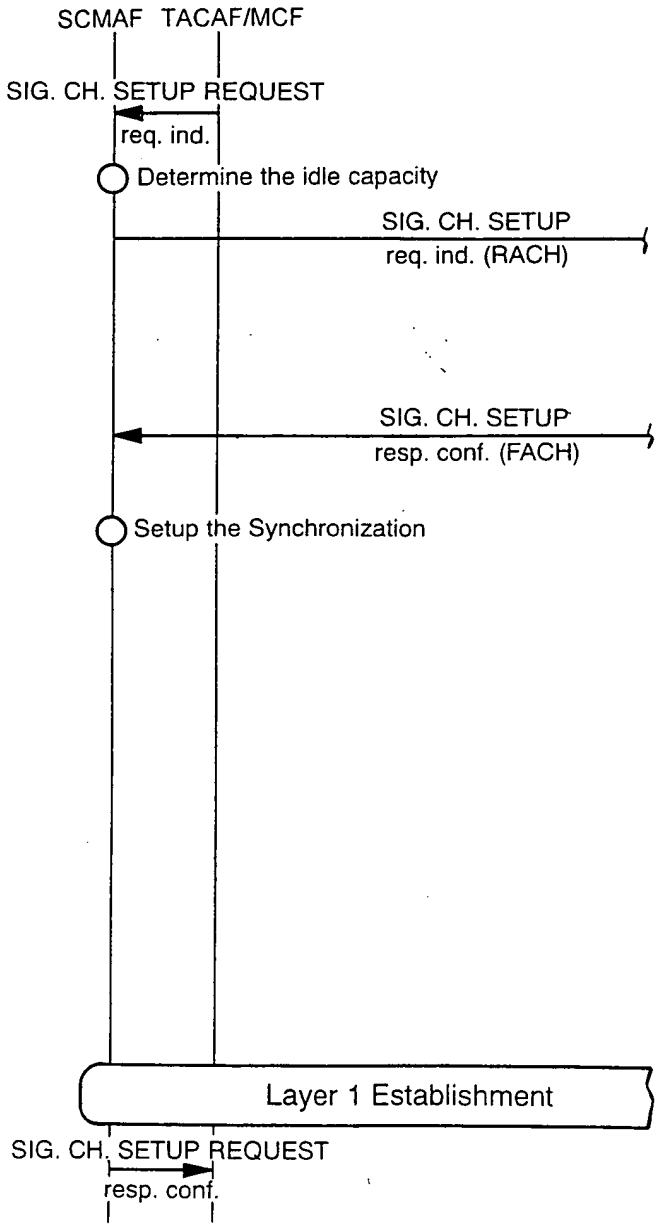


FIG. 27



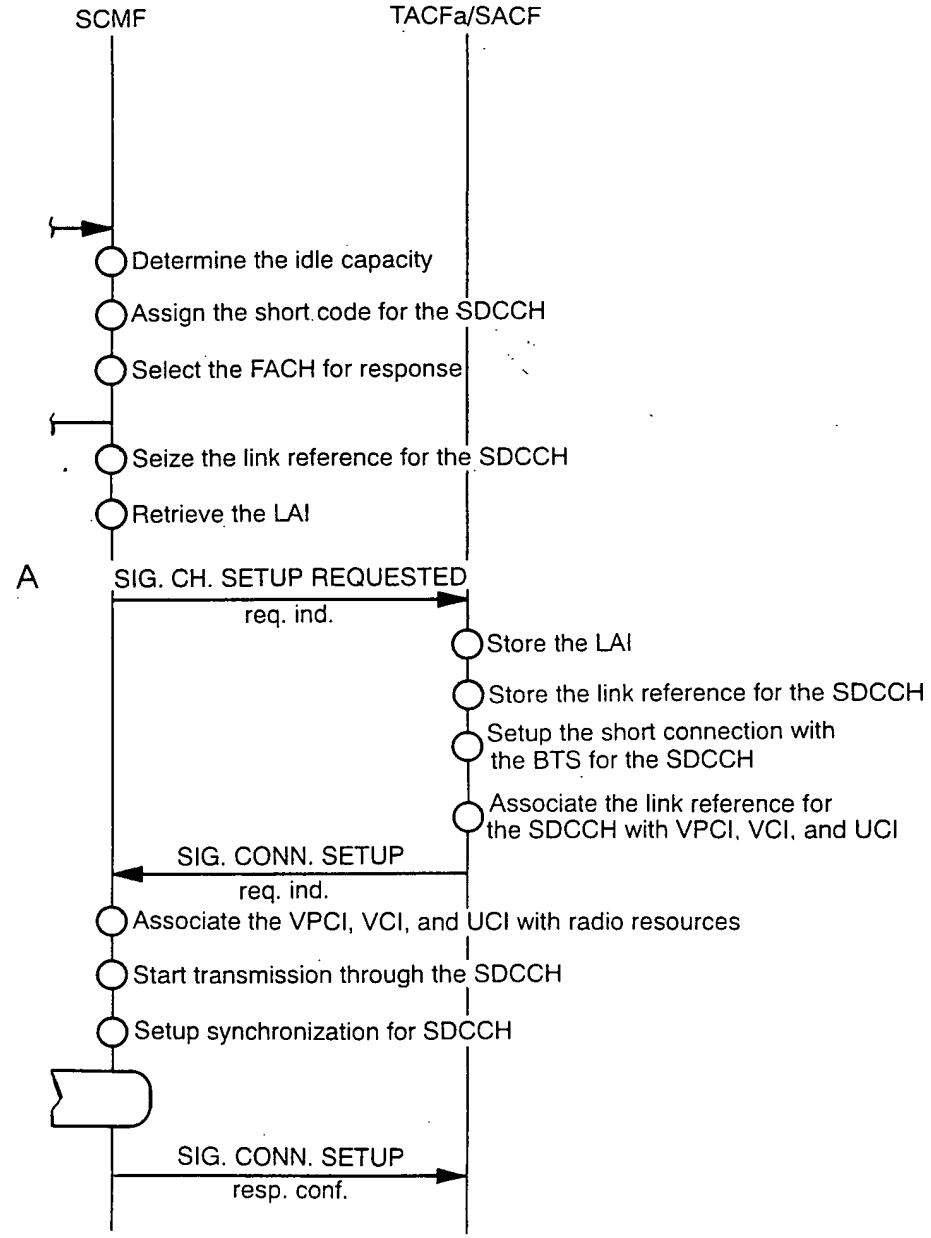
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FIG. 28



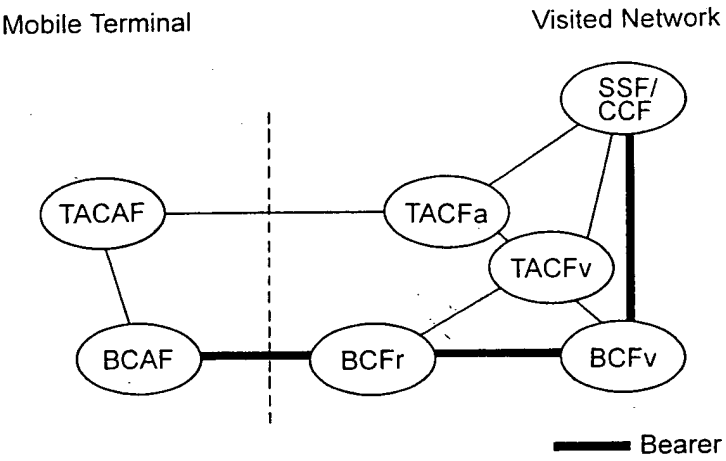
PRINT OF DRAWINGS
AS ORIGINALLY FILE

CONTINUED FROM FIG. 28



PRINT OF DRAWINGS
AS ORIGINALLY FILED

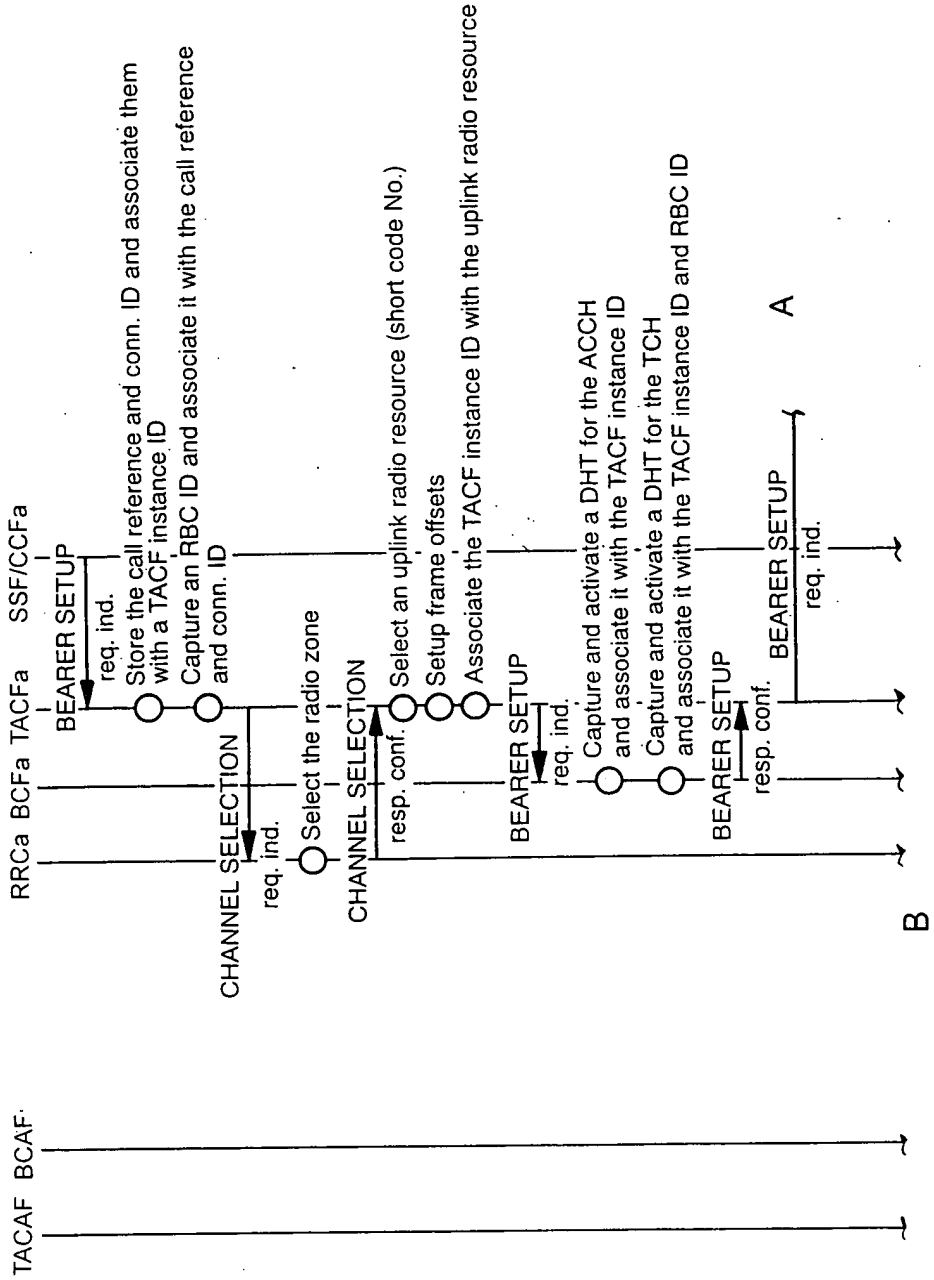
FIG. 29



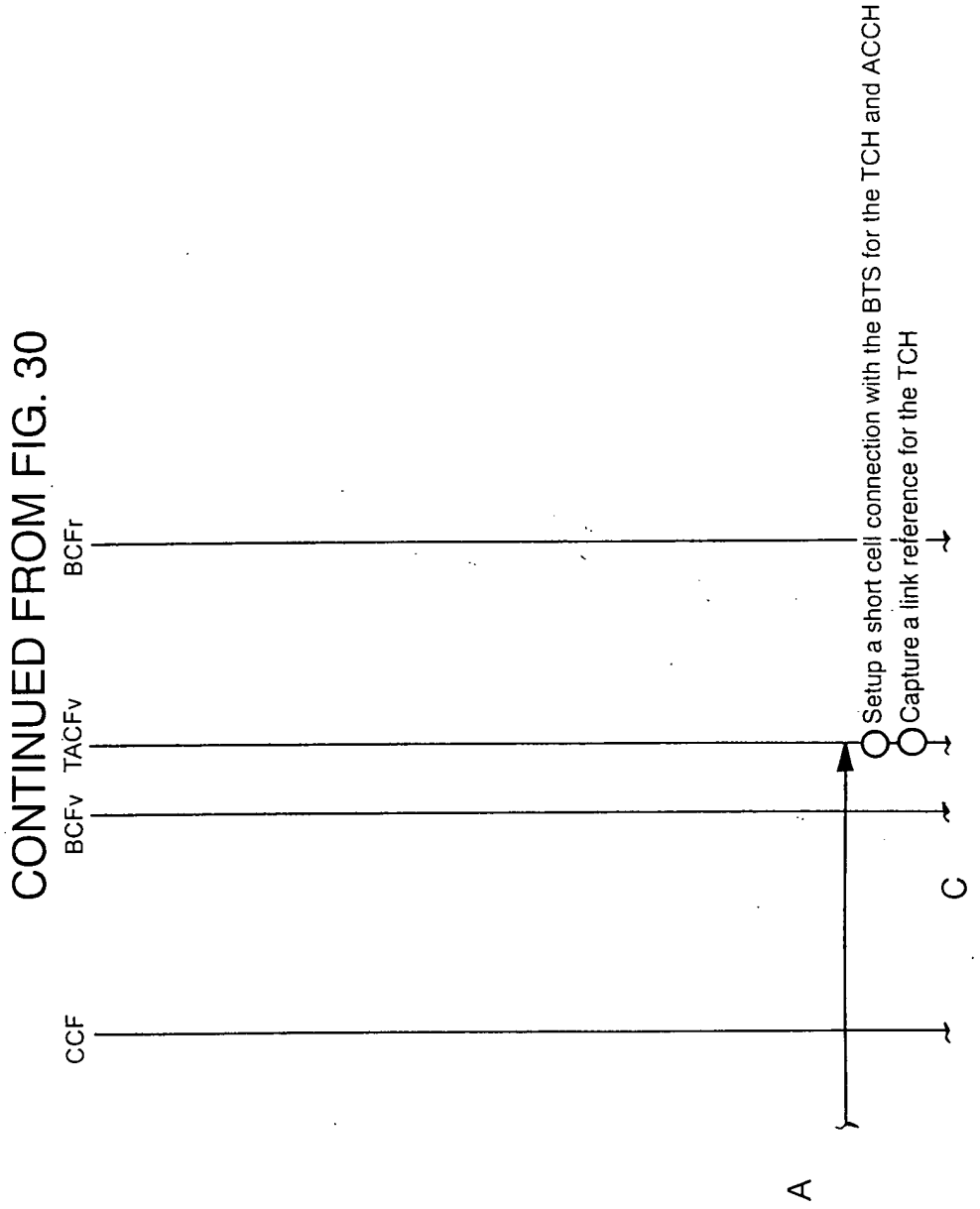
Note: Radio resources are selected under a BCFr controlled by a TACF which is different from that which received the call setup request (but which is under the control of a single CCF)

PRINT OF DRAWINGS
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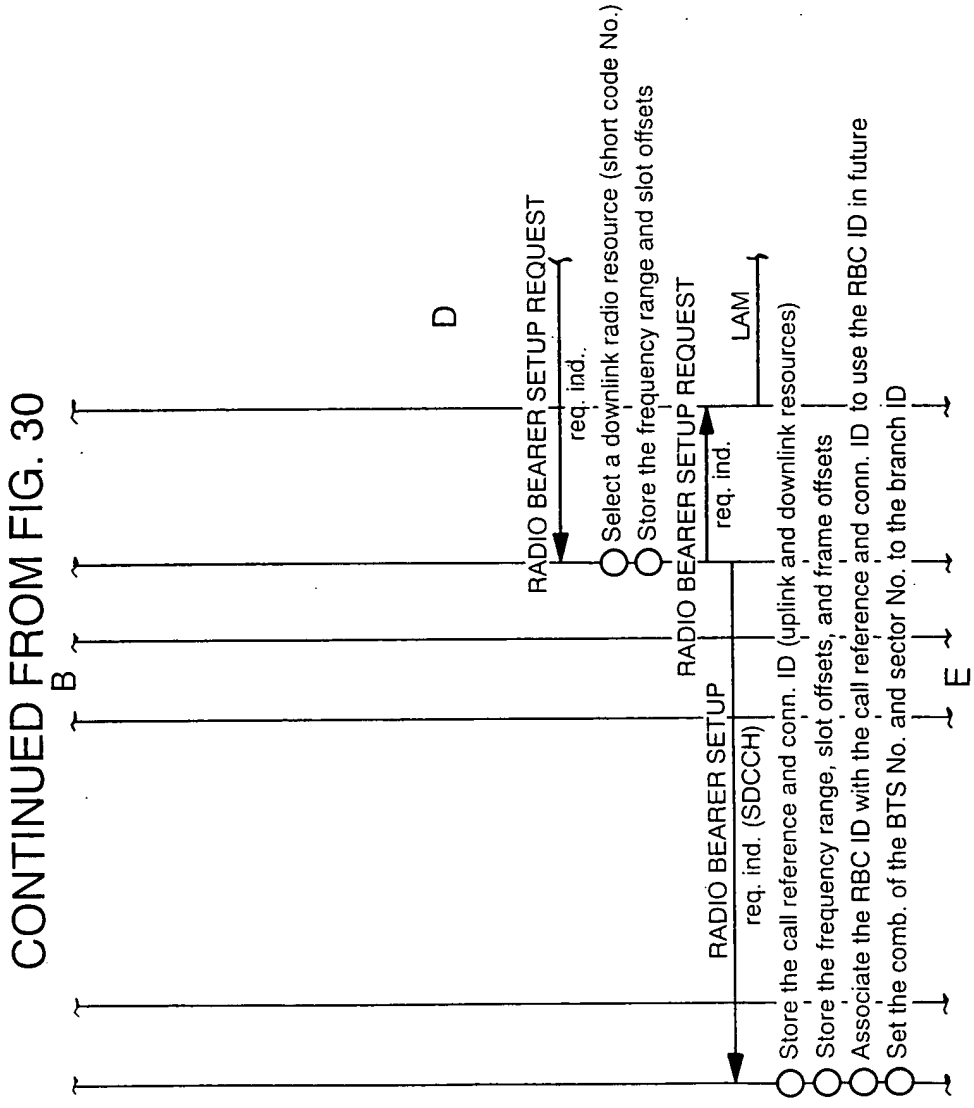
FIG. 30



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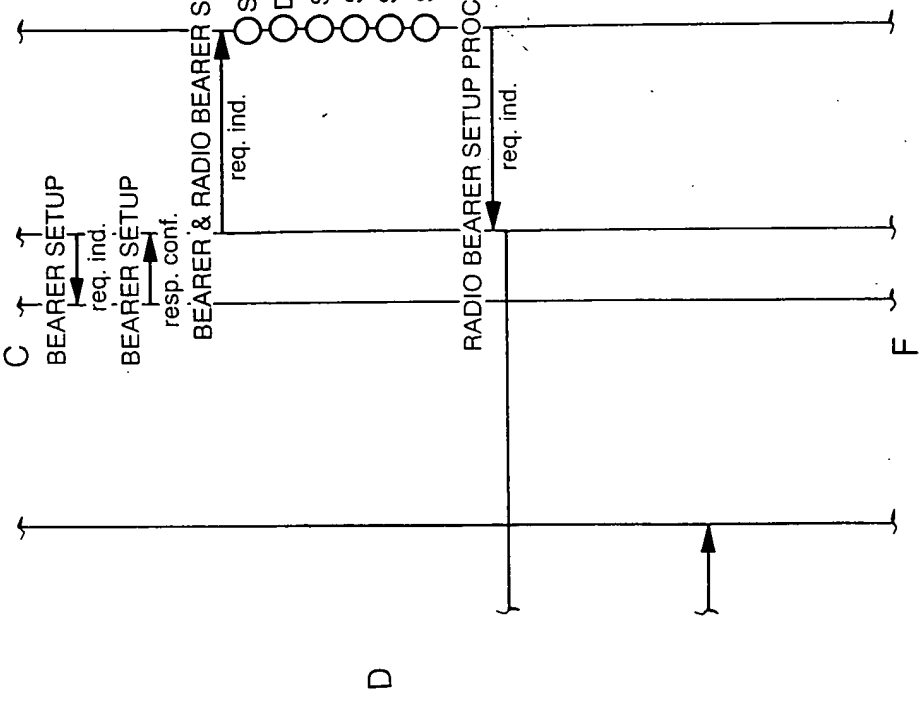
PRINT OF DRAWINGS
AS ORIGINALLY FILE.



PRINT OF DRAWINGS
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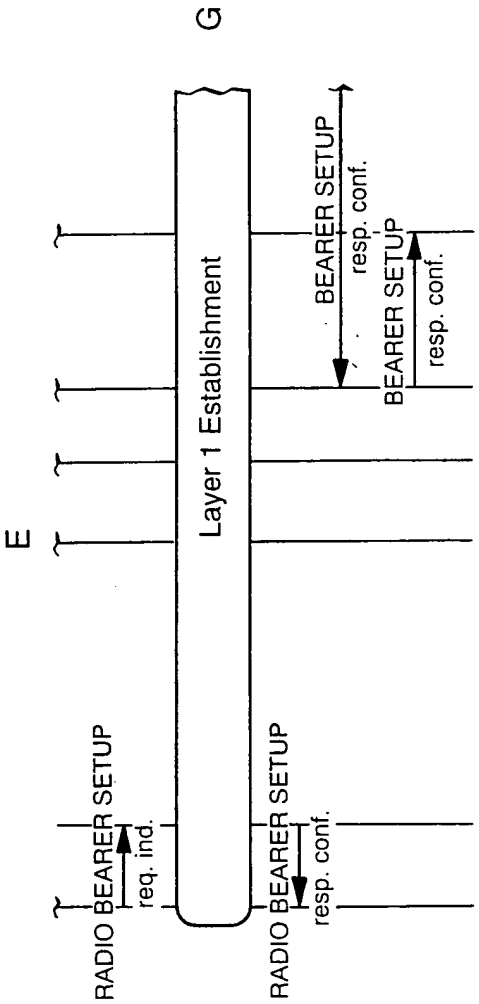
DECEIVED TECH CENTER

CONTINUED FROM FIG. 30



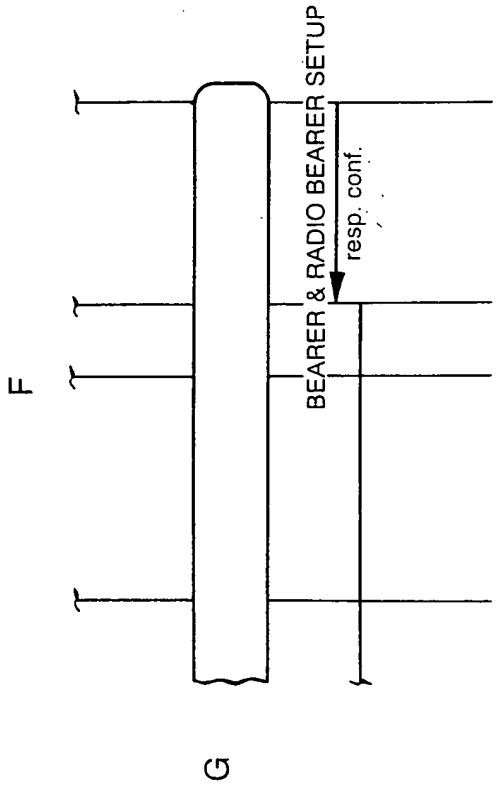
PRINT OF DRAWINGS
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CONTINUED FROM FIG. 30



PRINT OF DRAWINGS
AS ORIGINALLY FILED

CONTINUED FROM FIG. 30



PRINT OF DRAWINGS
AS ORIGINALLY FILED

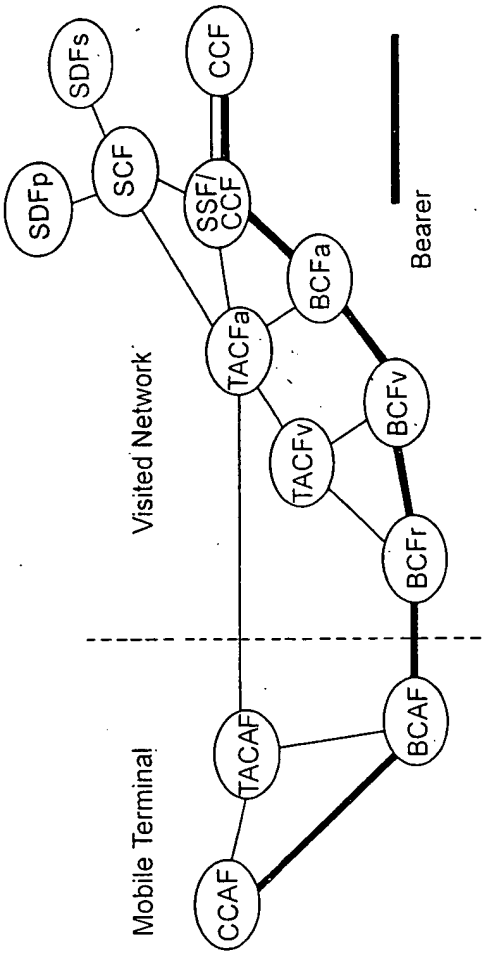
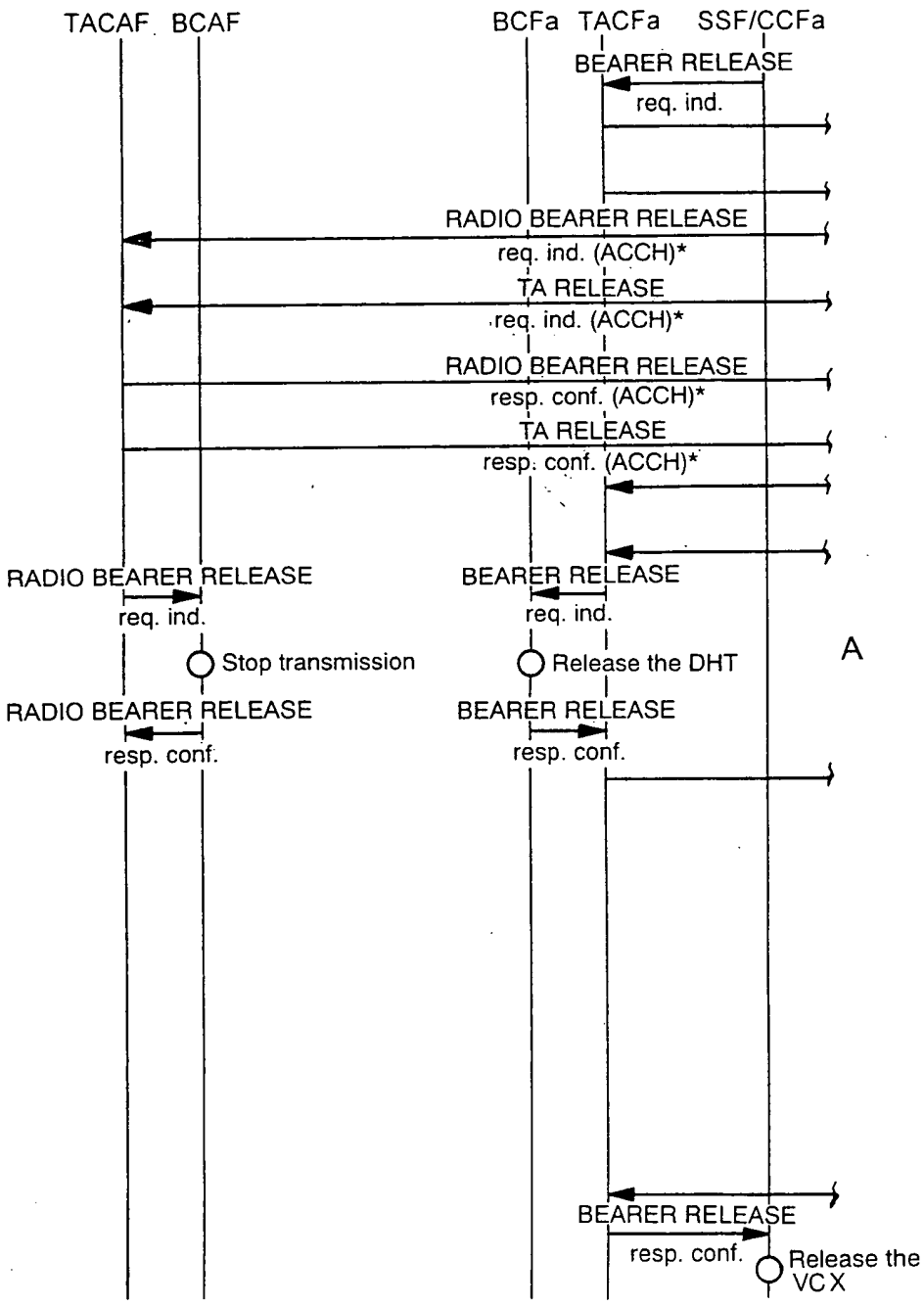


FIG. 31

PRINT OF DRAWINGS
AS ORIGINALLY FILE.

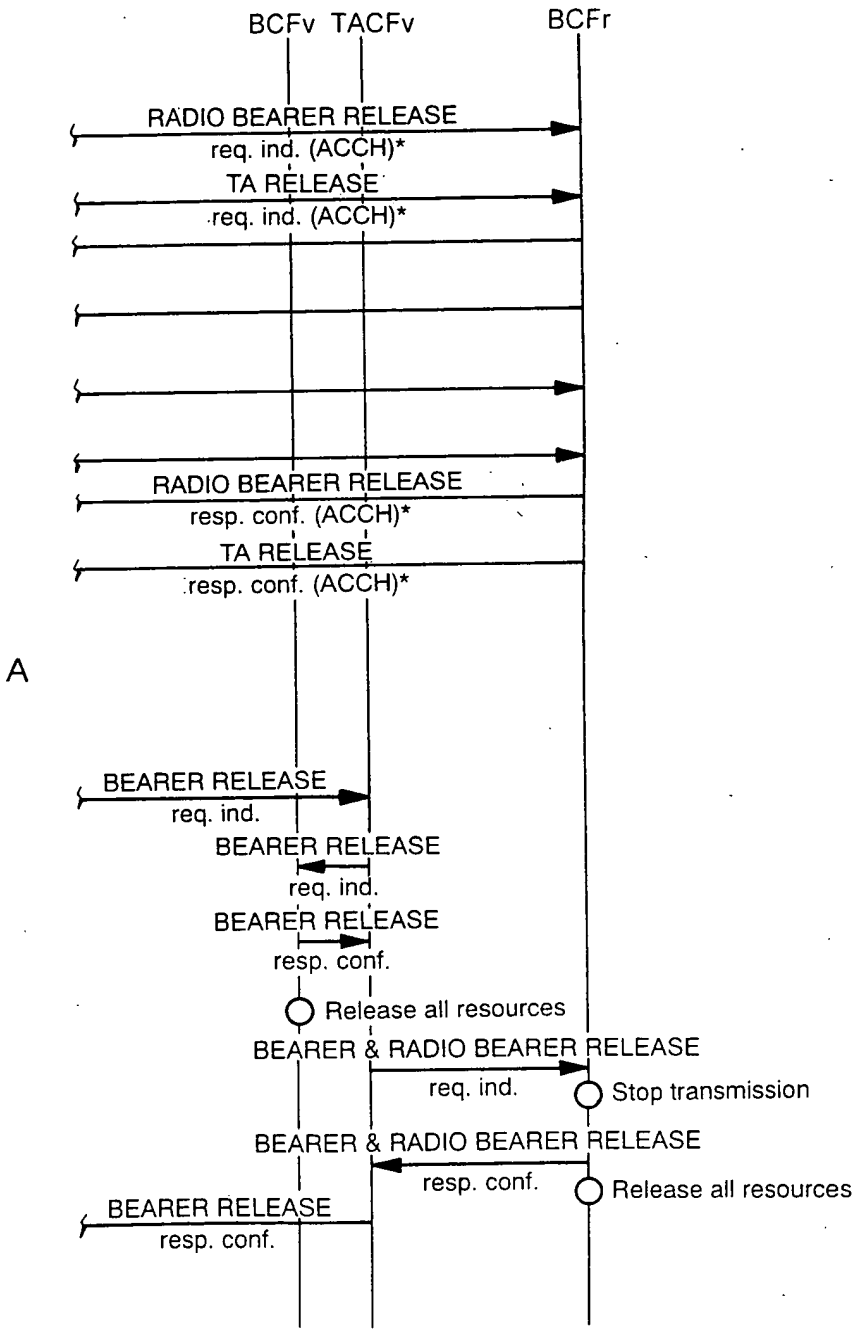
FIG. 32



* : TA Release is concatenated only when the association of the MS is released by the call release.

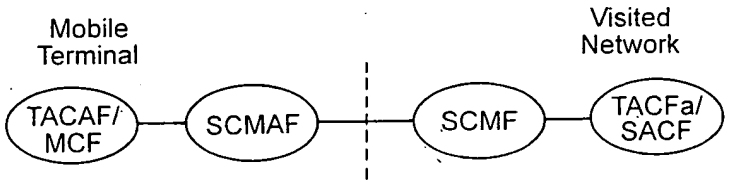
PRINT OF DRAWINGS
AS ORIGINALLY FILED

CONTINUED FROM FIG. 32



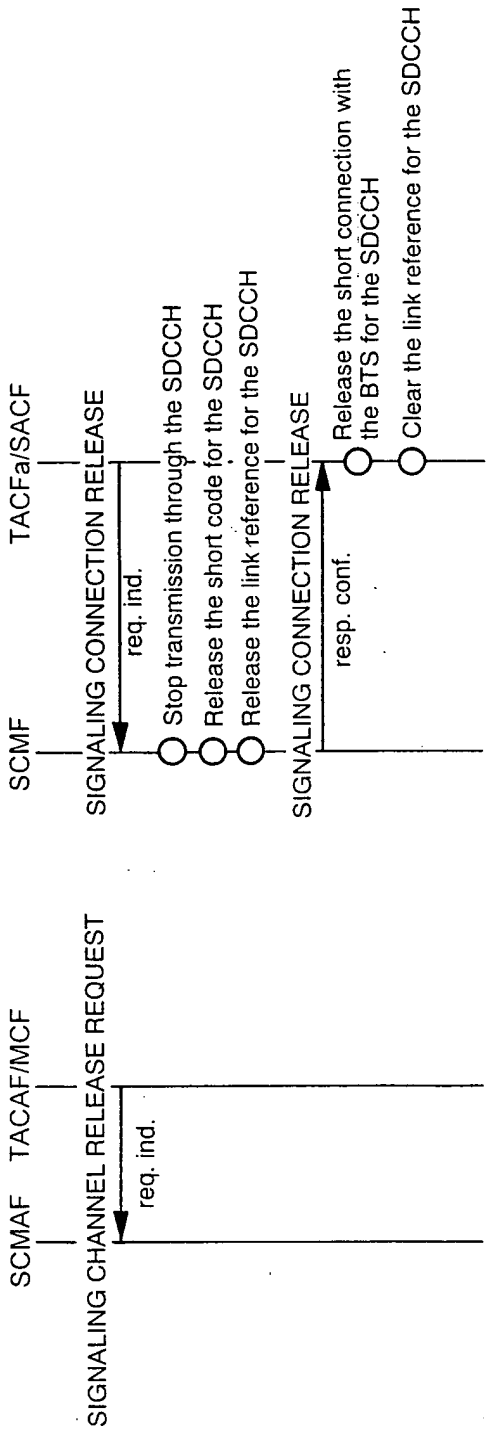
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FIG. 33



PRINT OF DRAWINGS
AS ORIGINALLY FILE

FIG. 34



PRINT OF DRAWINGS
AS ORIGINALLY FILE

FIG. 35

Process 1: Handover trigger
→ Detection of handover triggering

Process 2: Handover resource reservation
→ Reservation of radio resources for handover

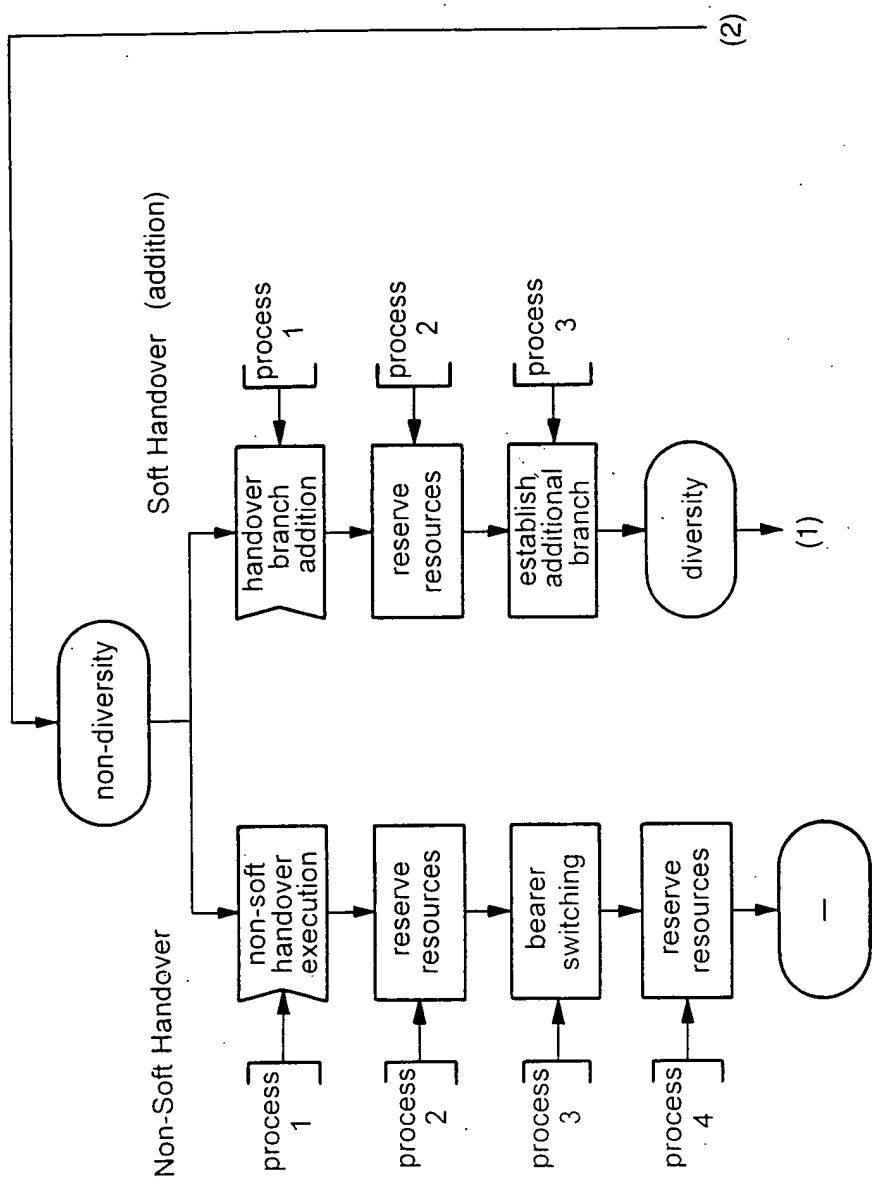
Process 3: Handover execution
→ Preparing at network side, if any
→ Request the mobile terminal as indicated by trigger

Process 4: Handover completion
→ Release of unneeded radio bearer and resources

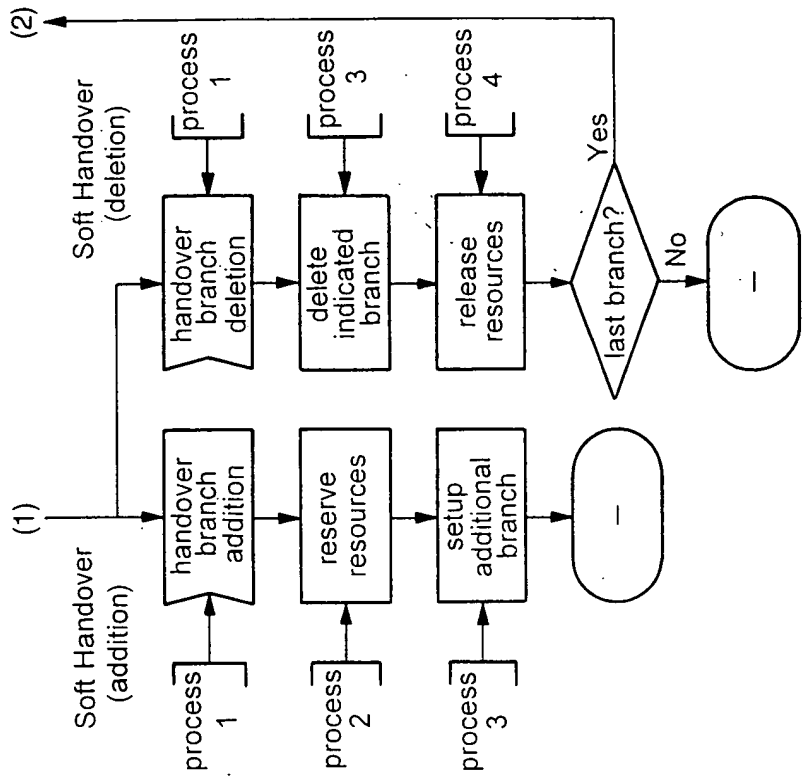
PRINT OF DRAWINGS
AS ORIGINALLY FILE

DOCKET ALARM

CONTINUED FROM FIG. 35

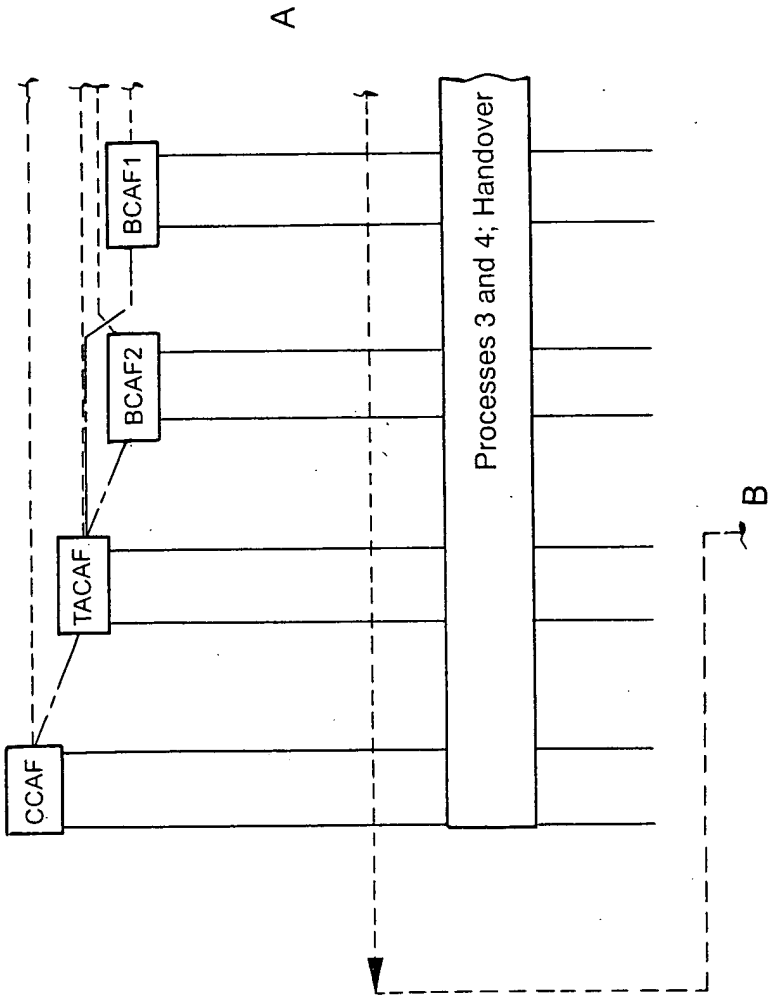


CONTINUED FROM FIG. 35



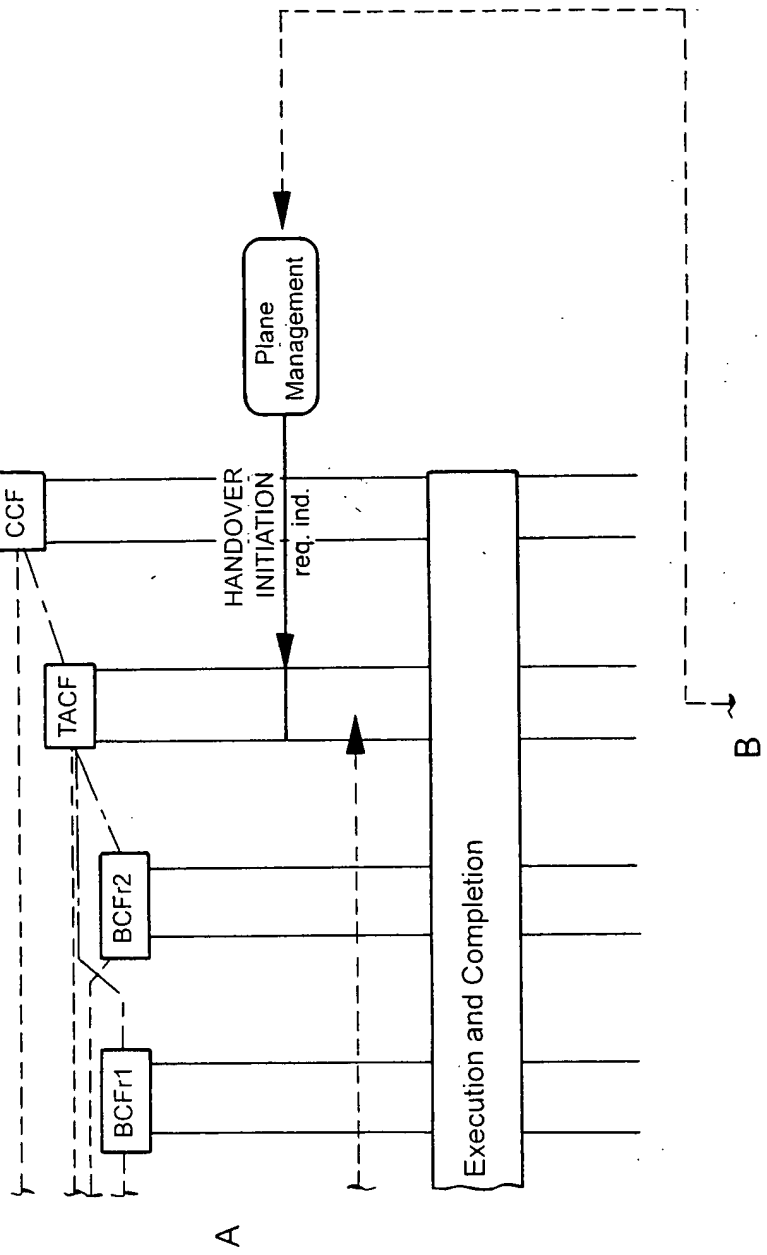
PRINT OF DRAWINGS
AS ORIGINALLY FILE

FIG. 36



PRINT OF DRAWINGS
AS ORIGINALLY FILE

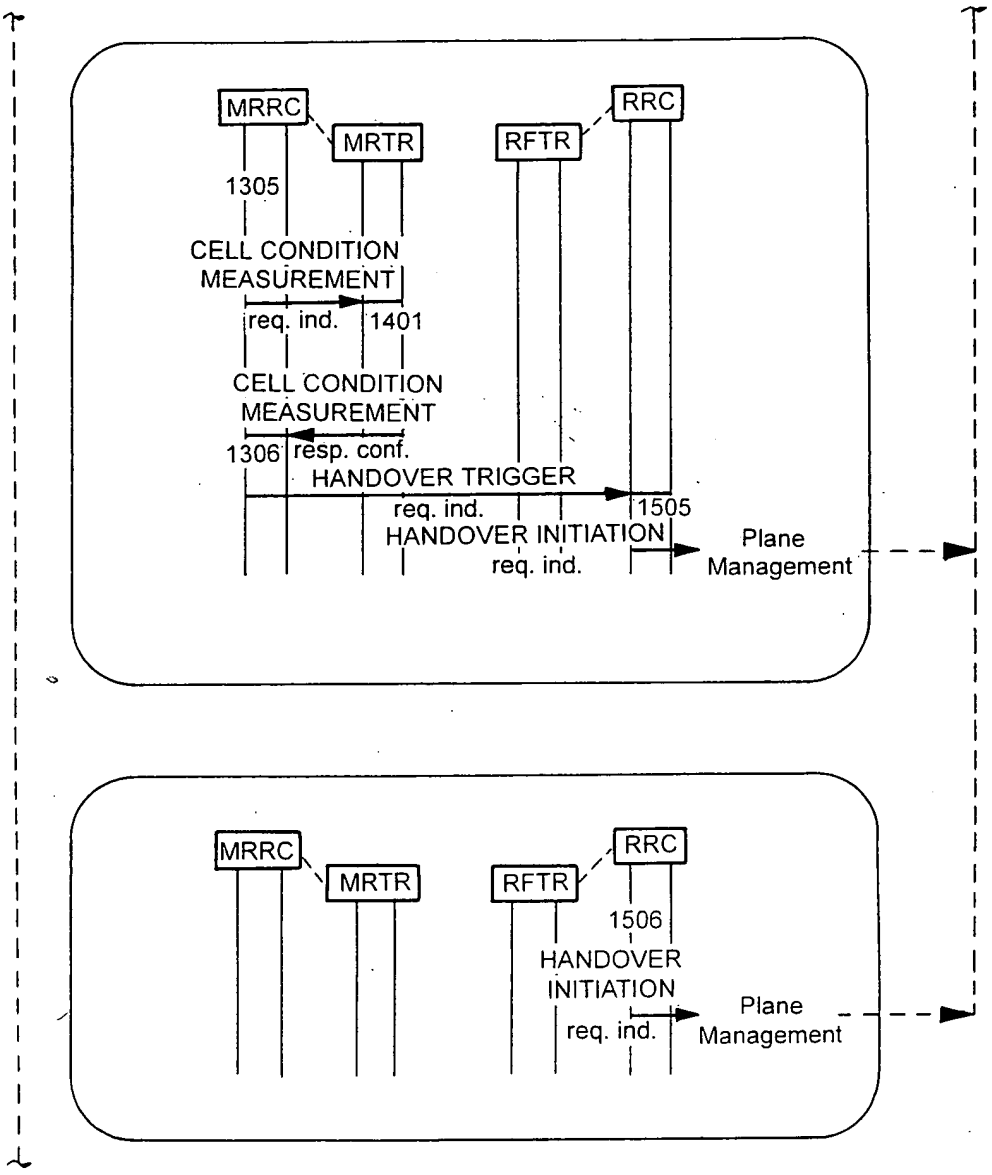
CONTINUED FROM FIG. 36



PRINT OF DRAWINGS
AS ORIGINALLY FILE

CONTINUED FROM FIG. 36

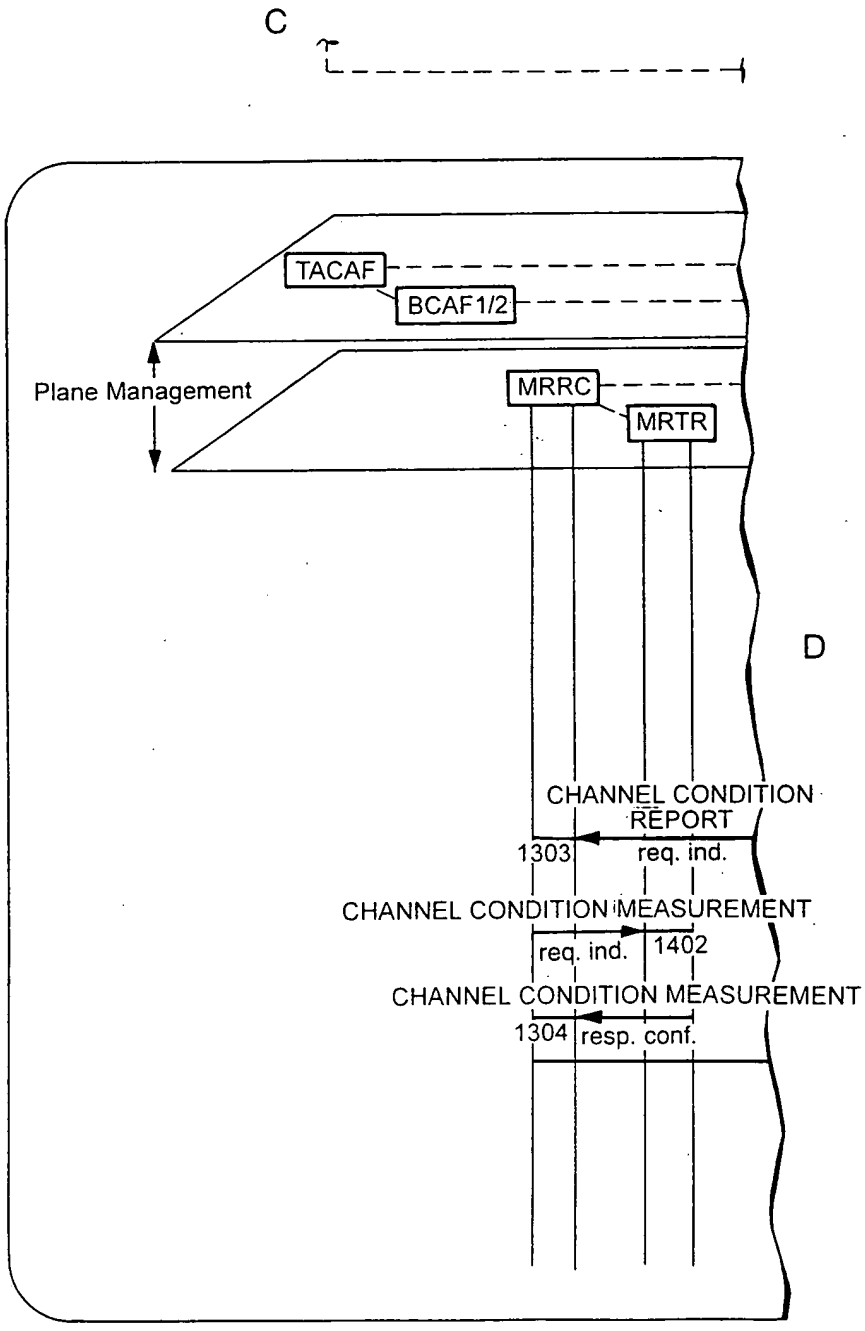
B



C

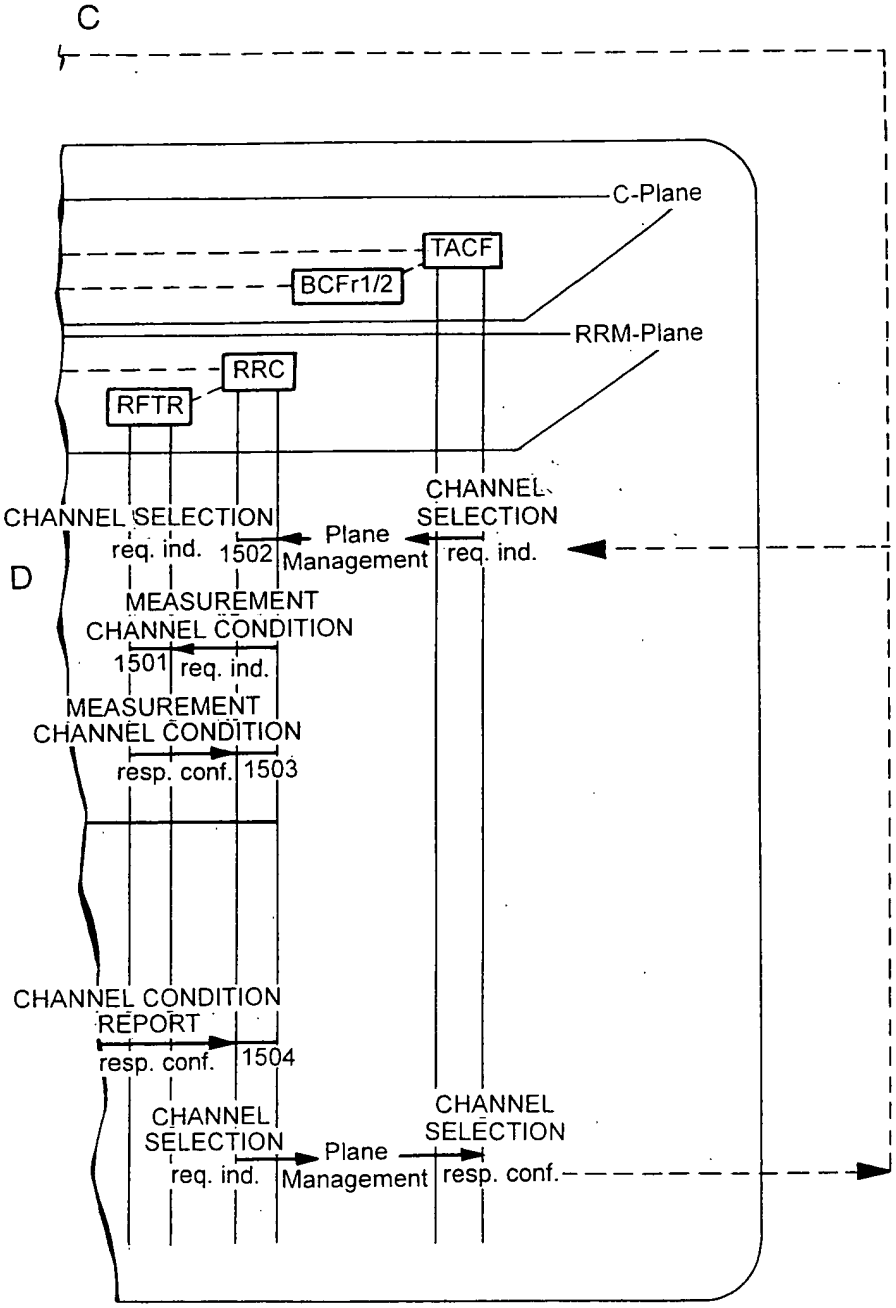
PRINT OF DRAWINGS
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CONTINUED FROM FIG. 36



PRINT OF DRAWINGS
AS ORIGINALLY FILE

CONTINUED FROM FIG. 36



PRINT OF DRAWINGS
AS ORIGINALLY FILE

FIG. 37

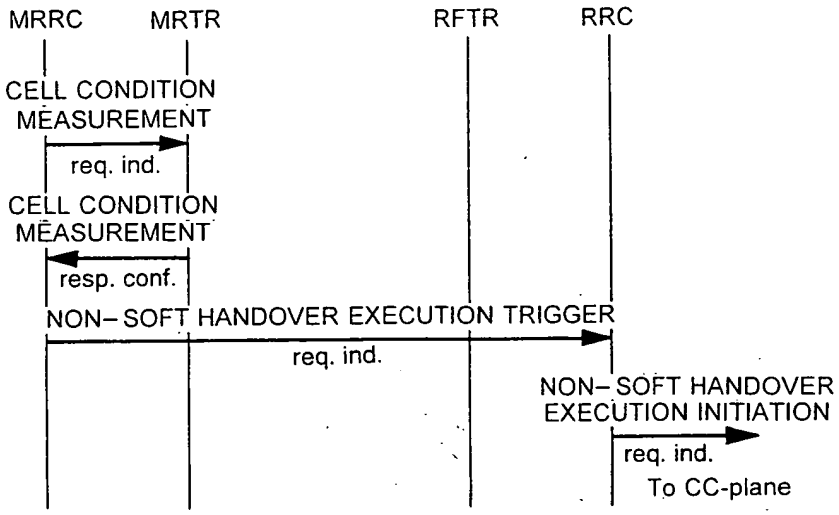
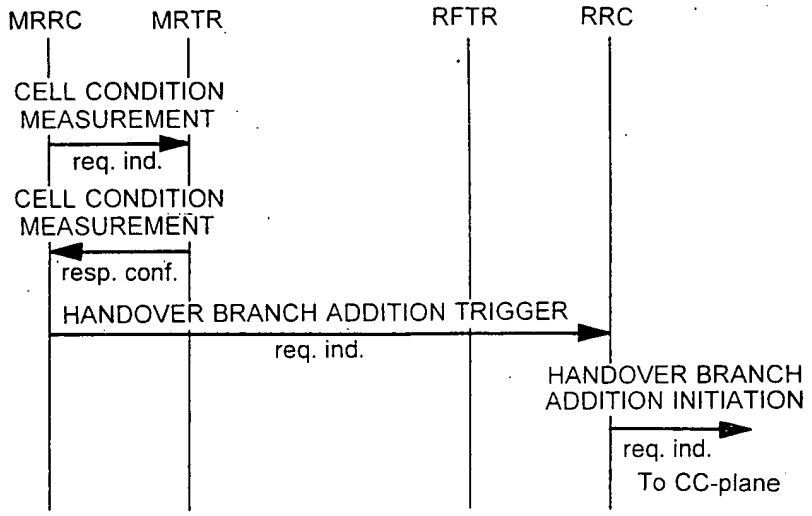
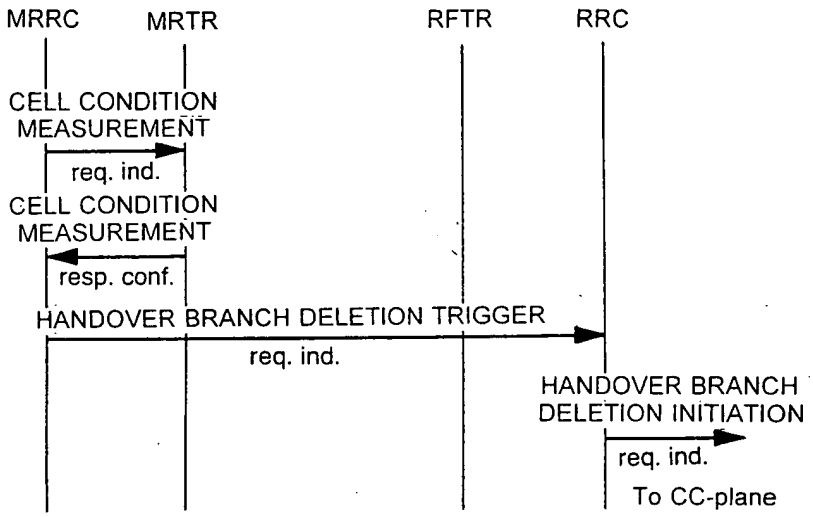


FIG. 38



PRINT OF DRAWINGS
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FIG. 39



PRINT OF DRAWINGS
AS ORIGINALLY FILE

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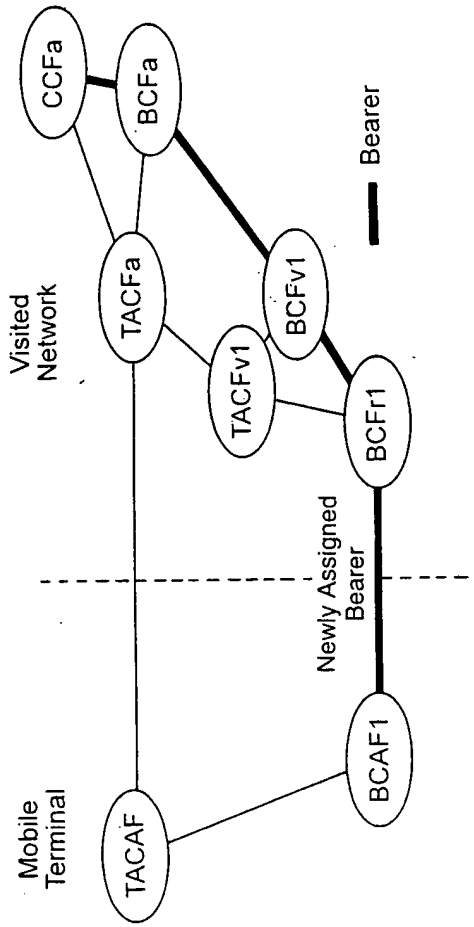
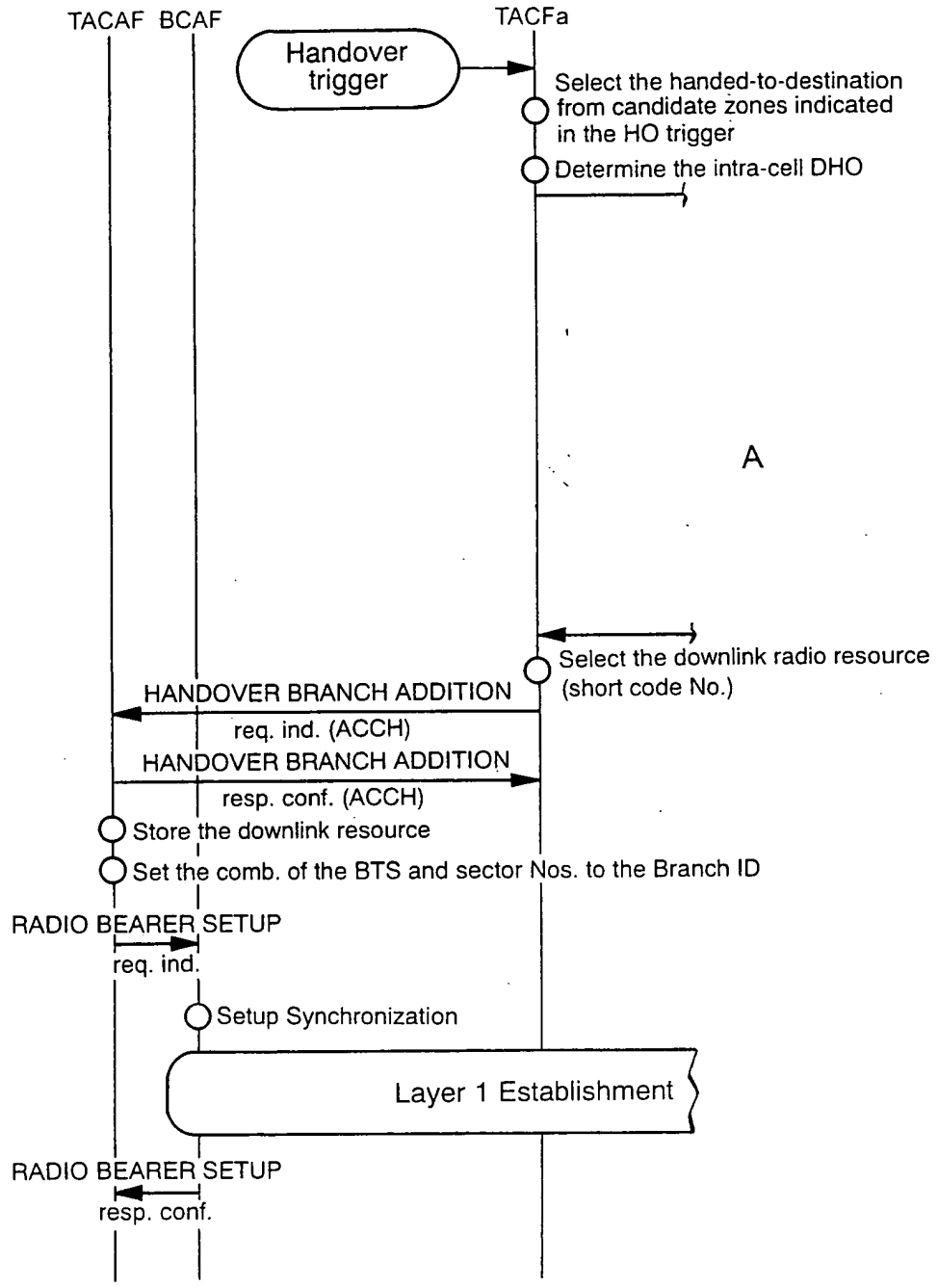


FIG. 40

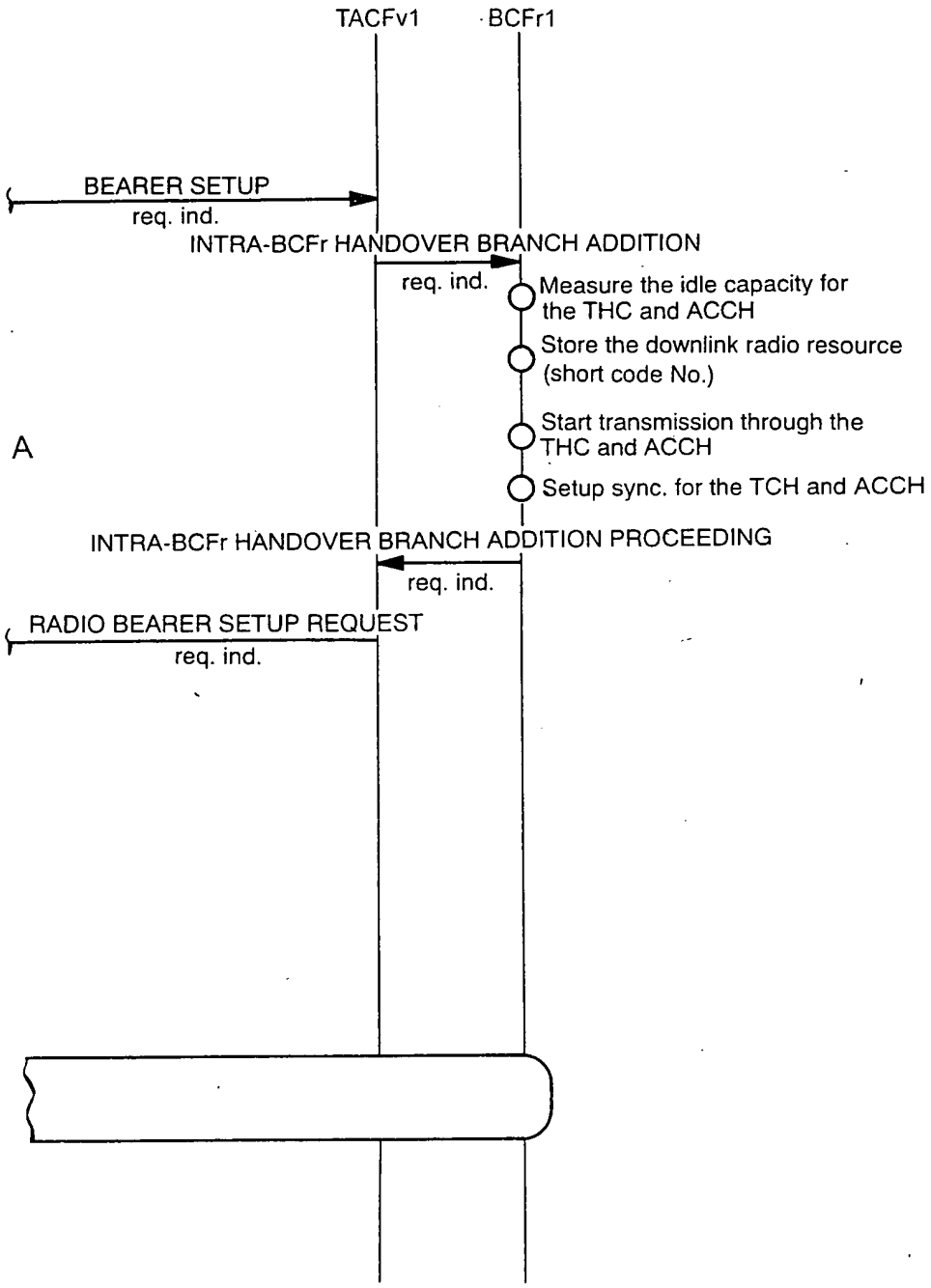
PRINT OF DRAWINGS
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FIG. 41



PRINT OF DRAWINGS
AS ORIGINALLY FILE.

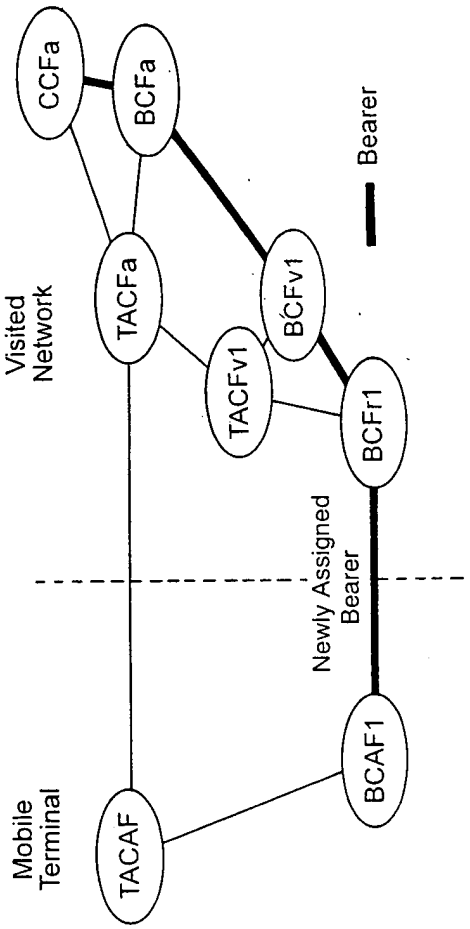
CONTINUED FROM FIG. 41



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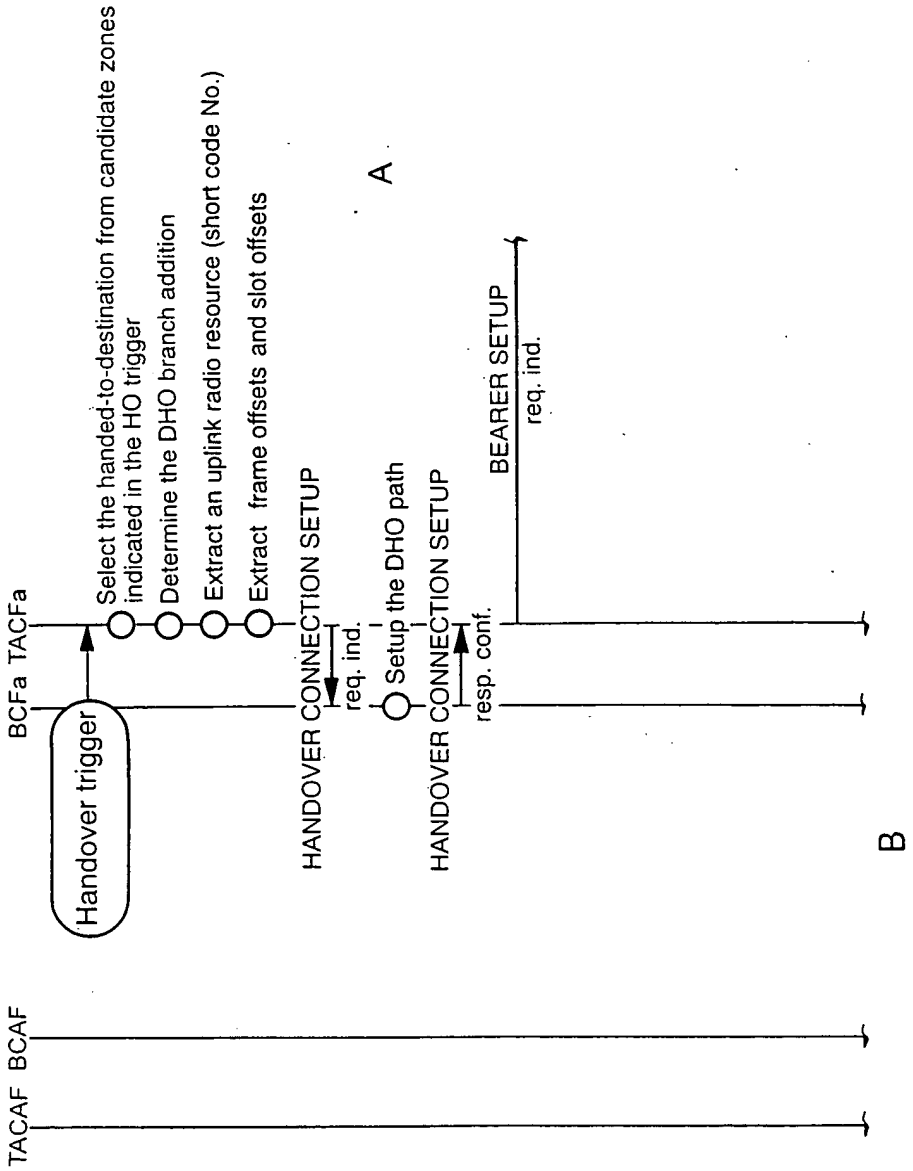
FIG. 42



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09/403431

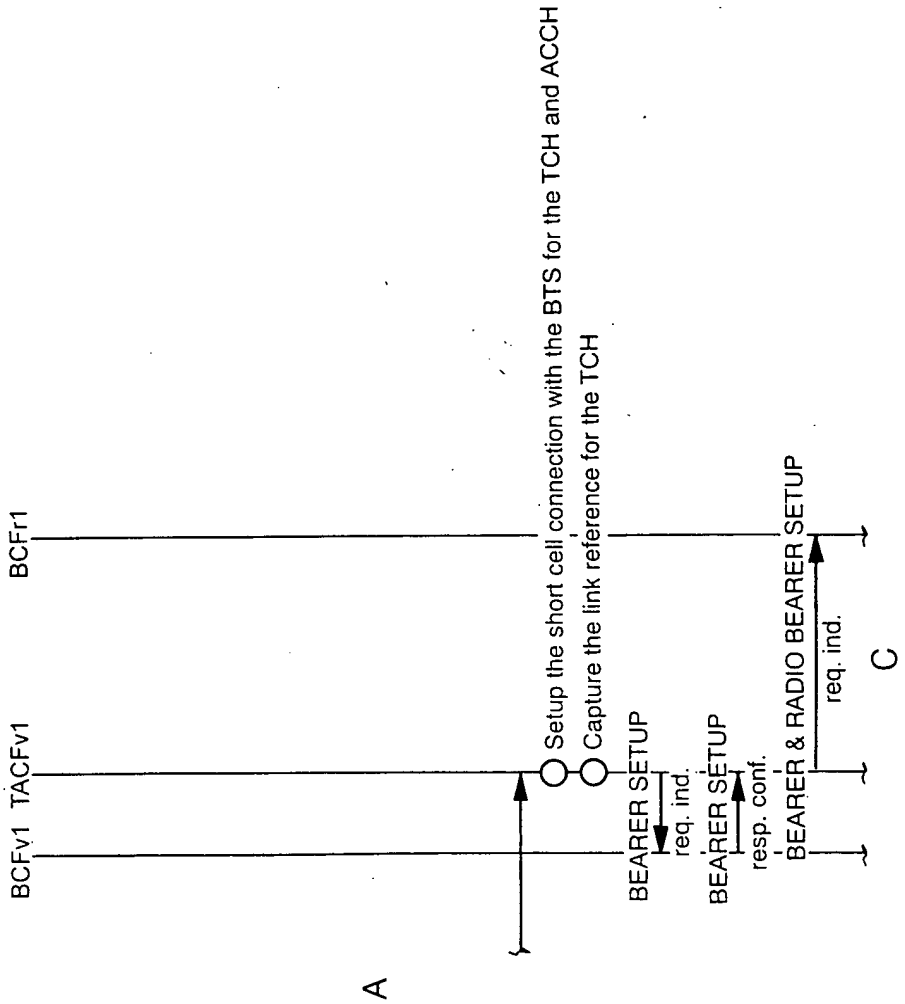
FIG. 43



PRINT OF DRAWINGS
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09403431 "Tue Oct 26

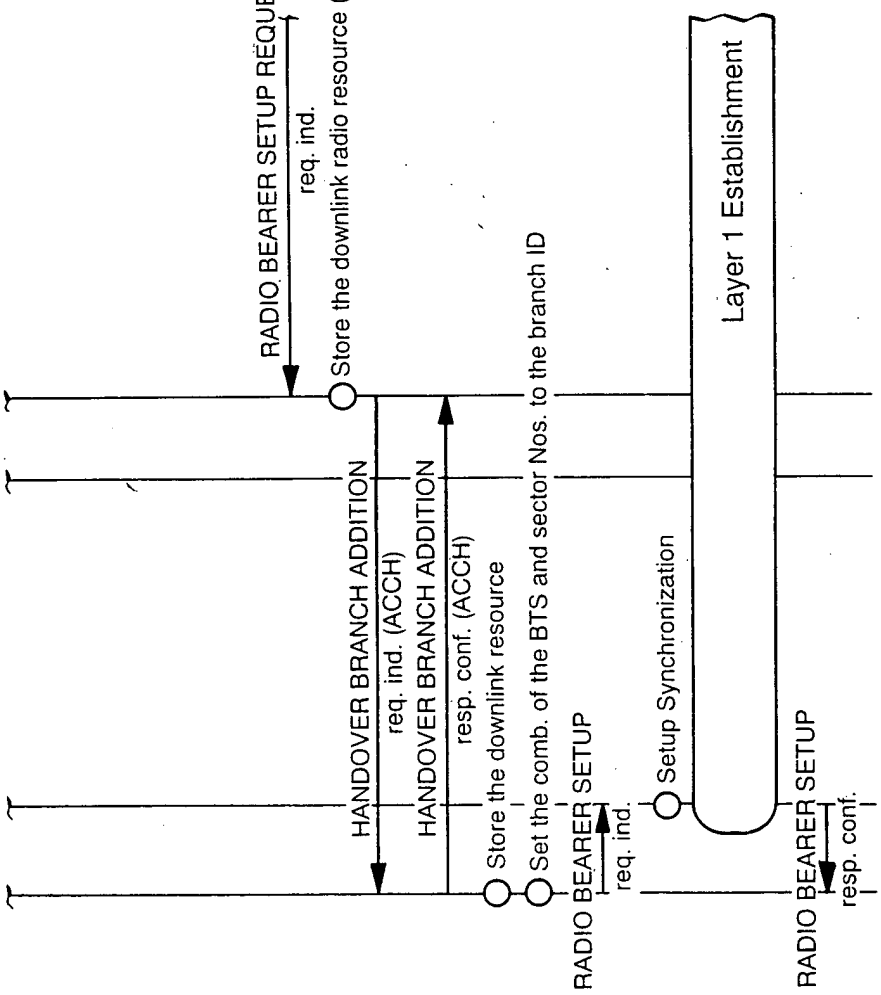
CONTINUED FROM FIG. 43



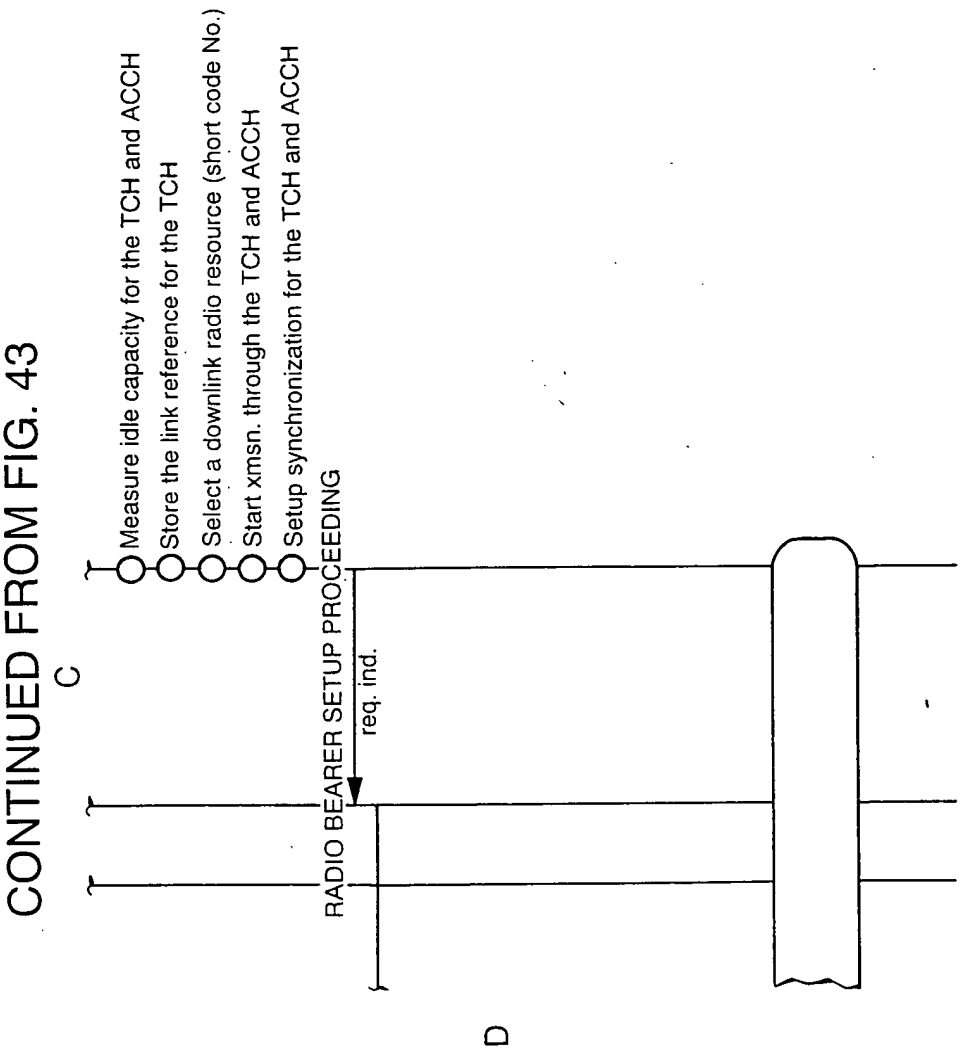
PRINT OF DRAWINGS
AS ORIGINALLY FILE

docket text

CONTINUED FROM FIG. 43
B



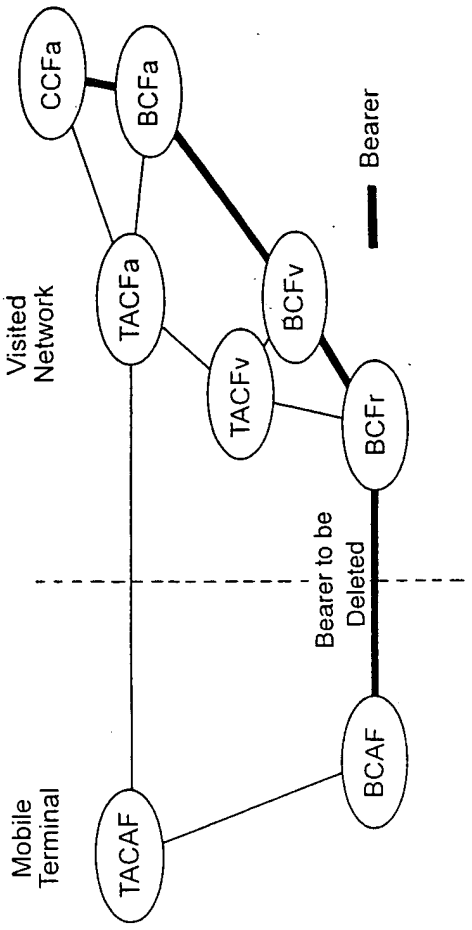
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PRINT OF DRAWINGS
AS ORIGINALLY FILE.

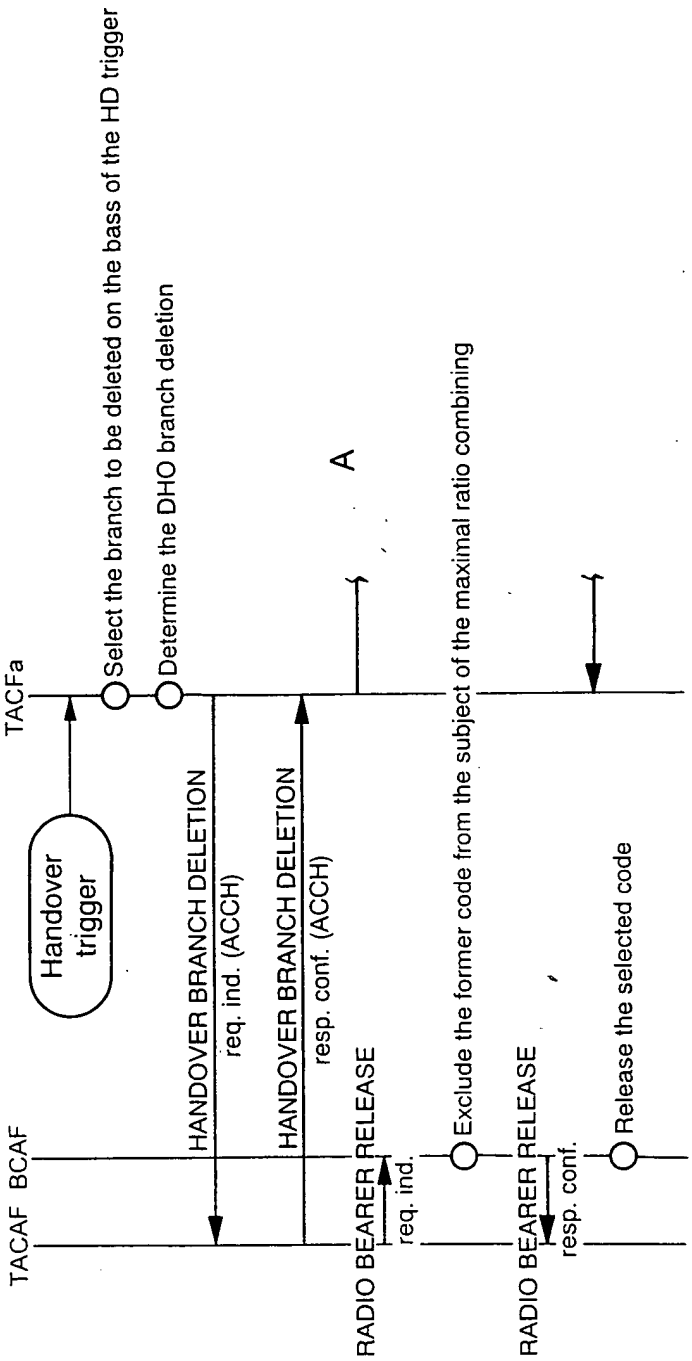
DOCKET TECHNICIAN

FIG. 44



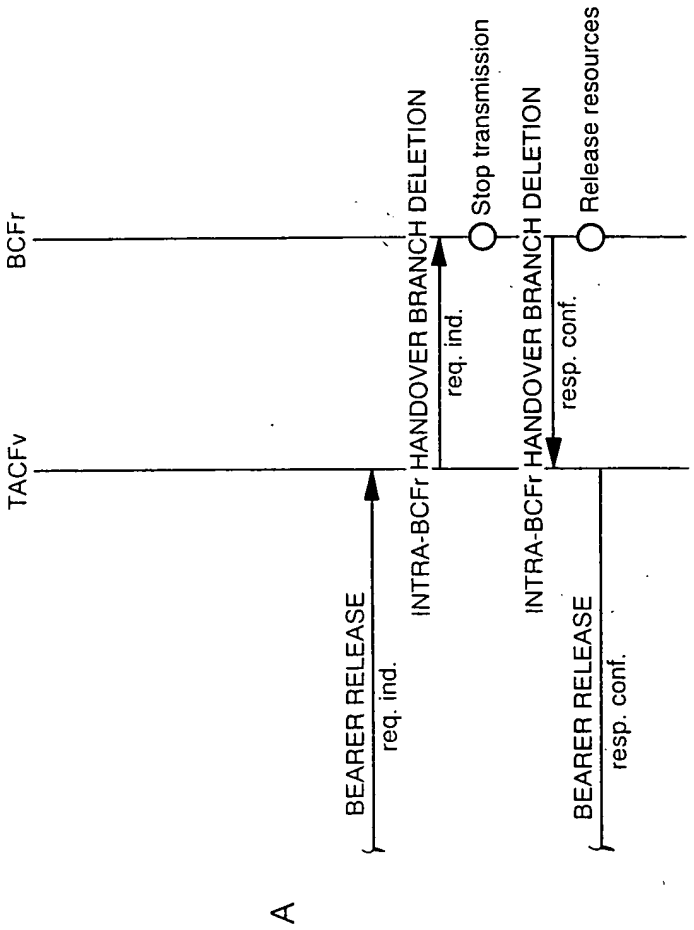
PRINT OF DRAWINGS
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FIG. 45



PRINT OF DRAWINGS
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CONTINUED FROM FIG. 45



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AS ORIGINALLY FILE.

09403431 "082601

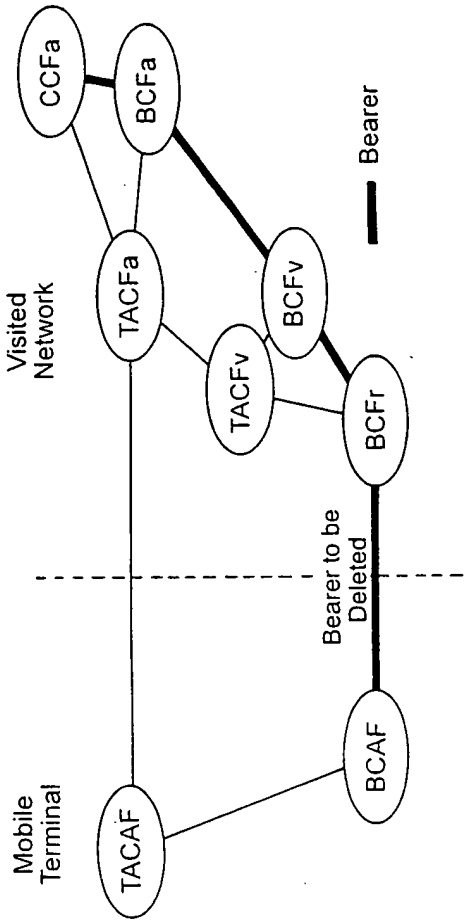
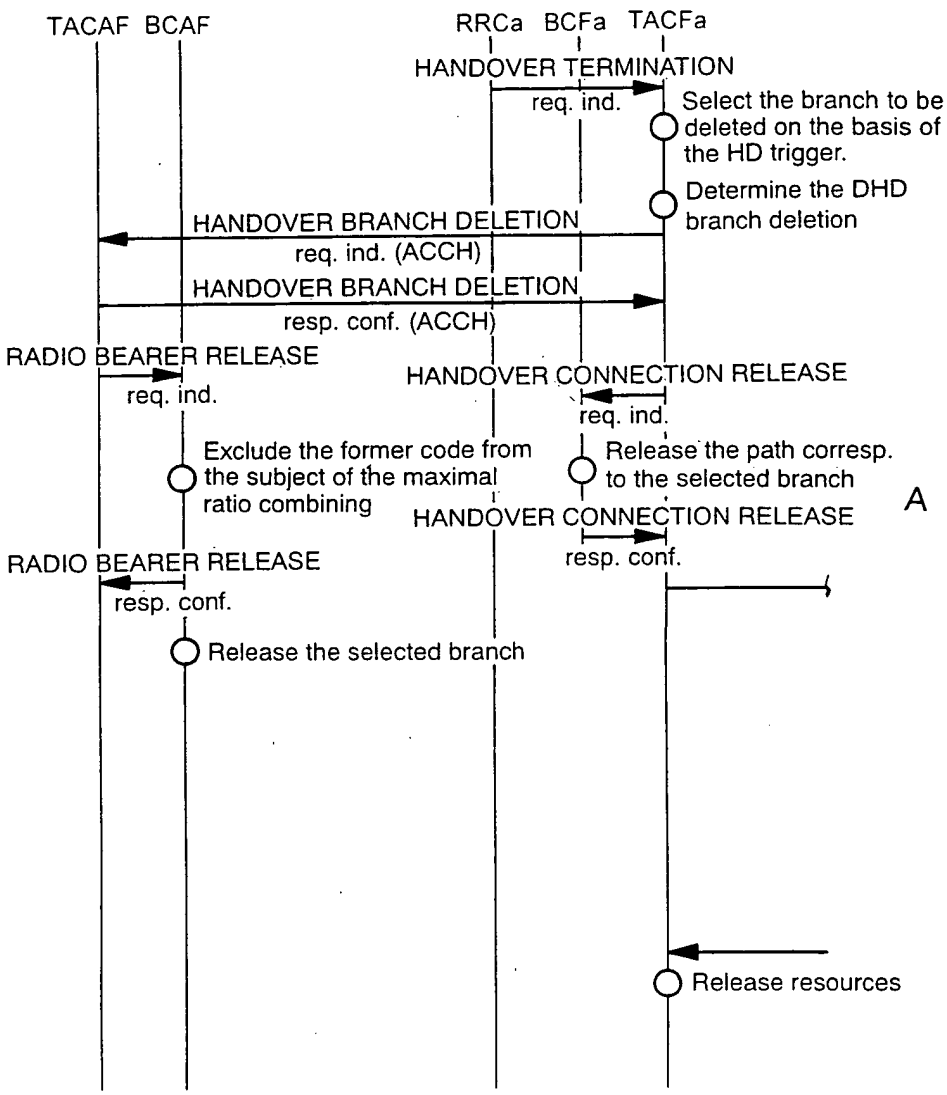


FIG. 46

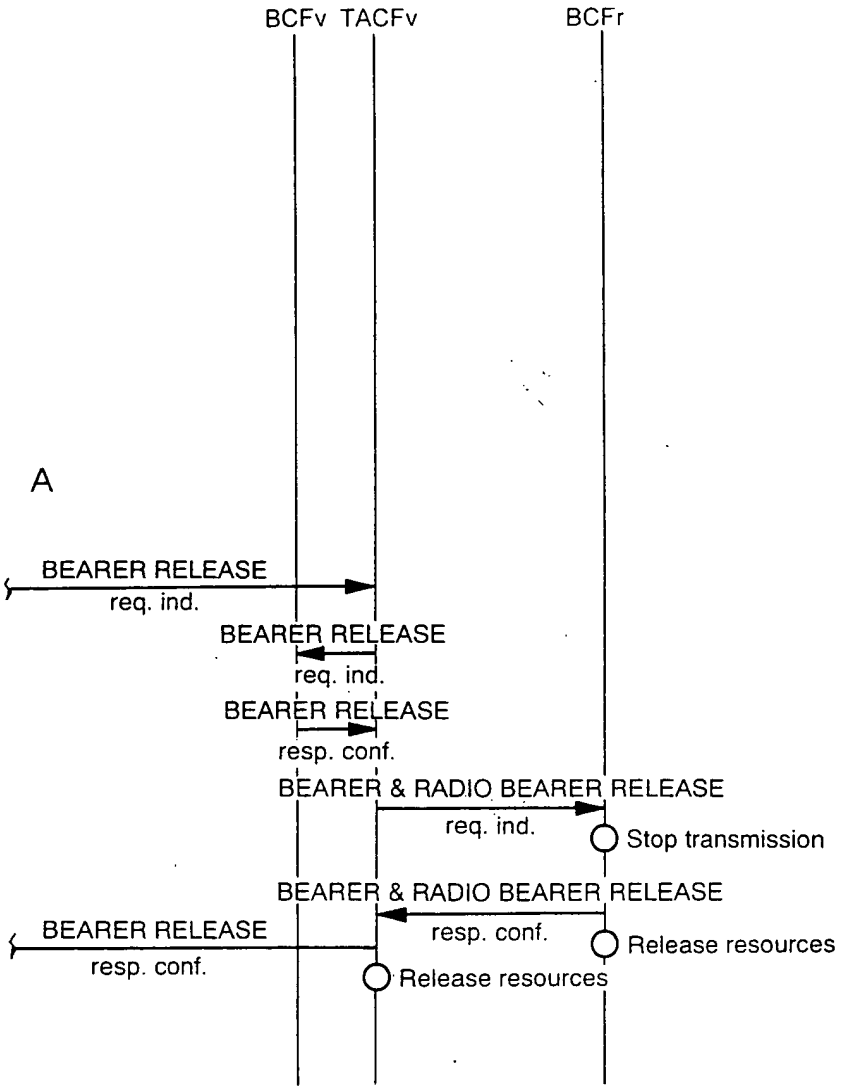
PRINT OF DRAWINGS
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FIG. 47



PRINT OF DRAWINGS
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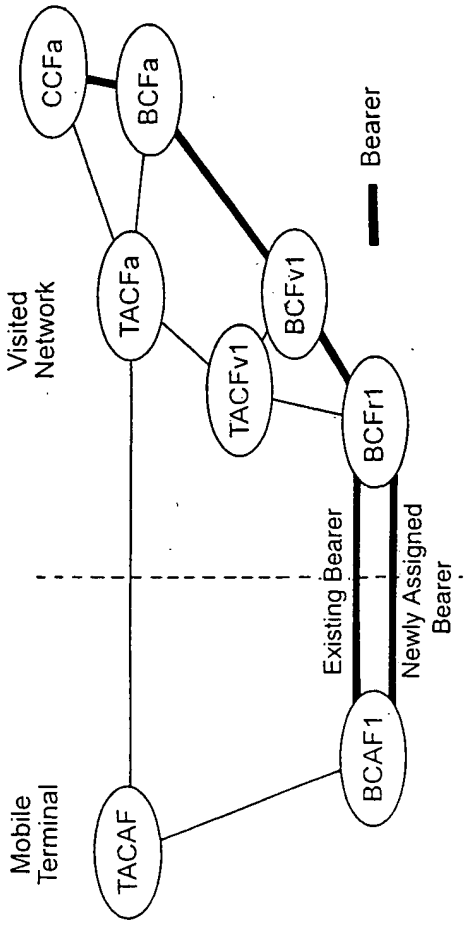
CONTINUED FROM FIG. 47



PRINT OF DRAWINGS
AS ORIGINALLY FILE

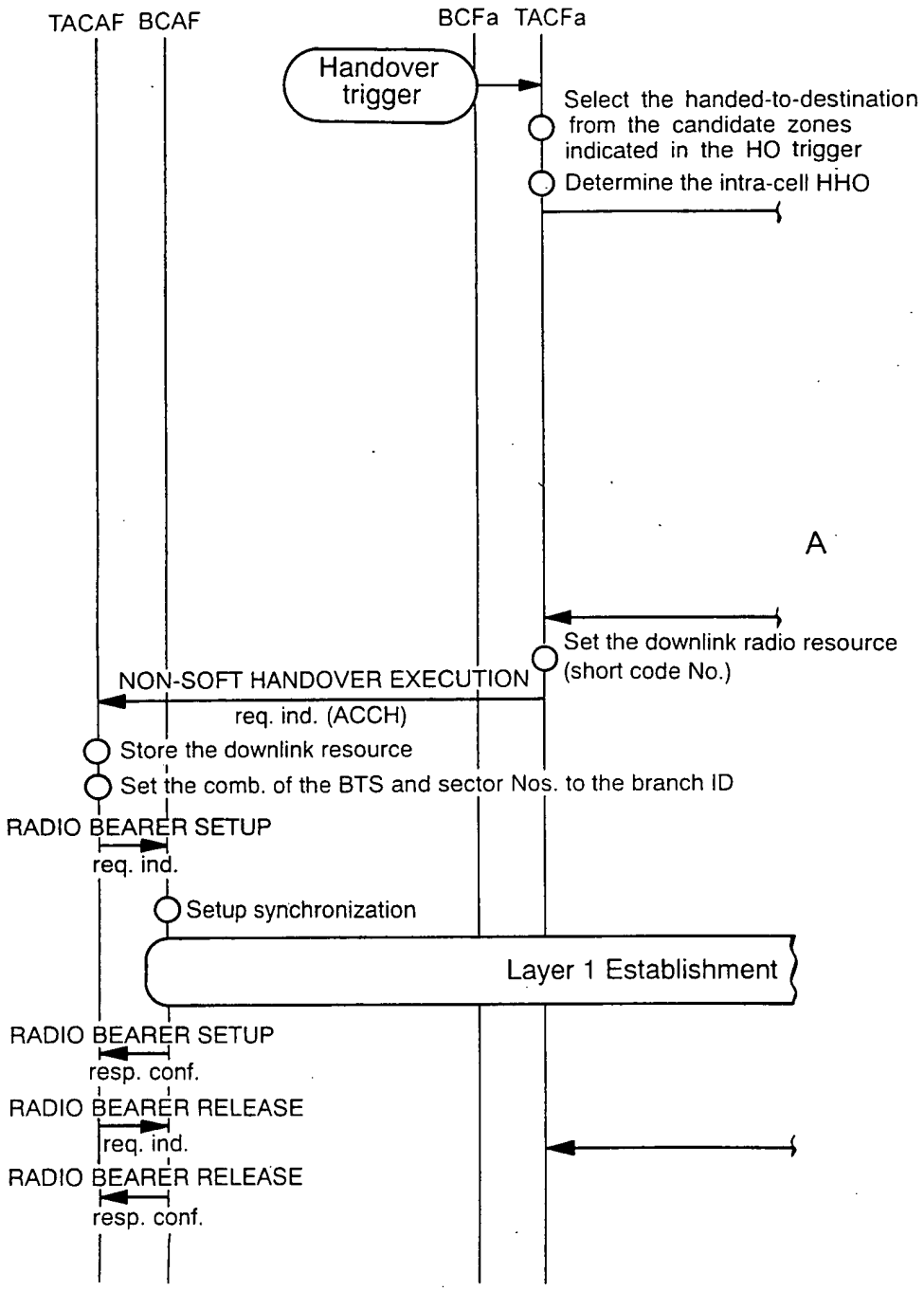
09/403431 "Technology"

FIG. 48



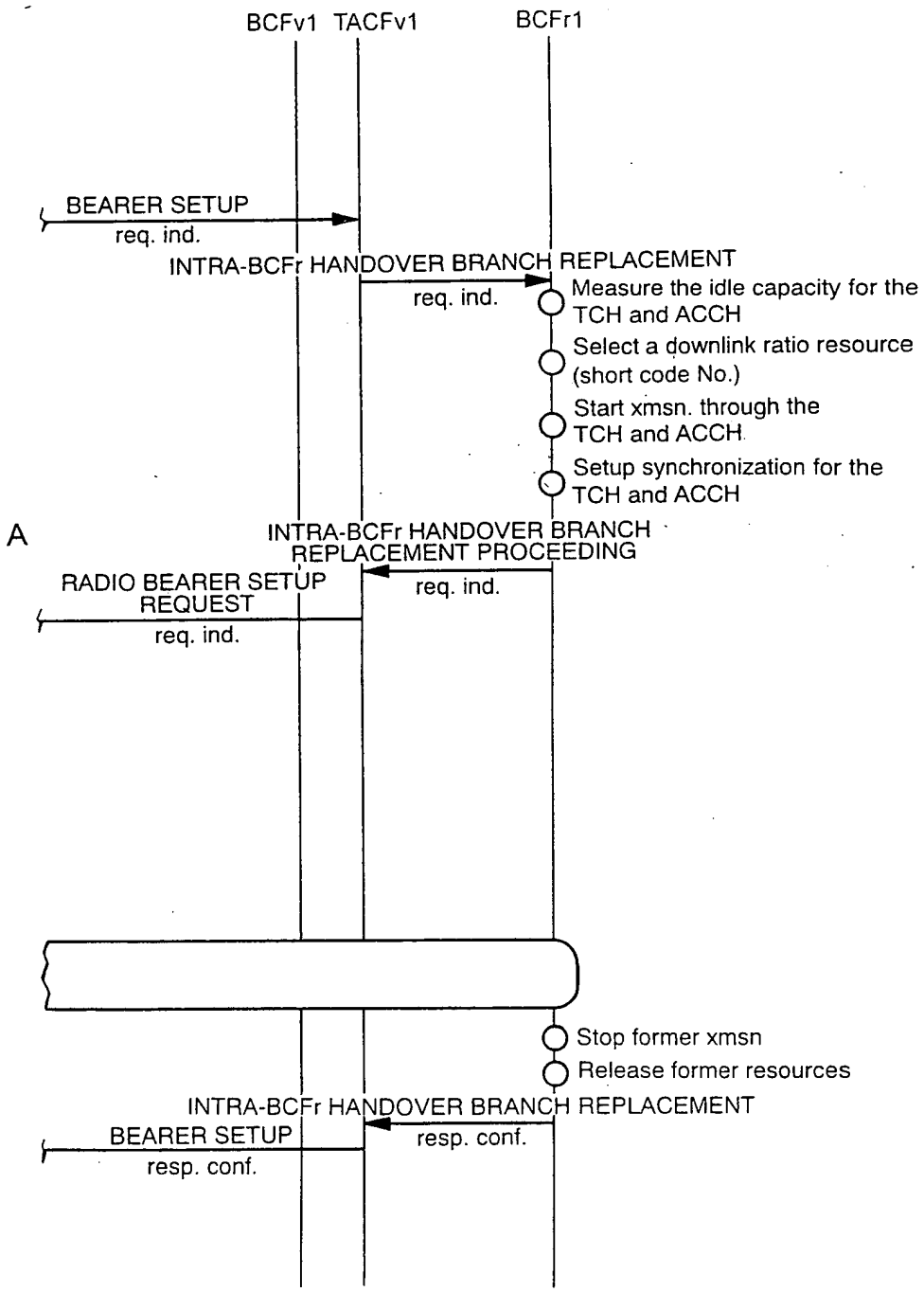
PRINT OF DRAWINGS
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FIG. 49



PRINT OF DRAWINGS
AS ORIGINALLY FILE

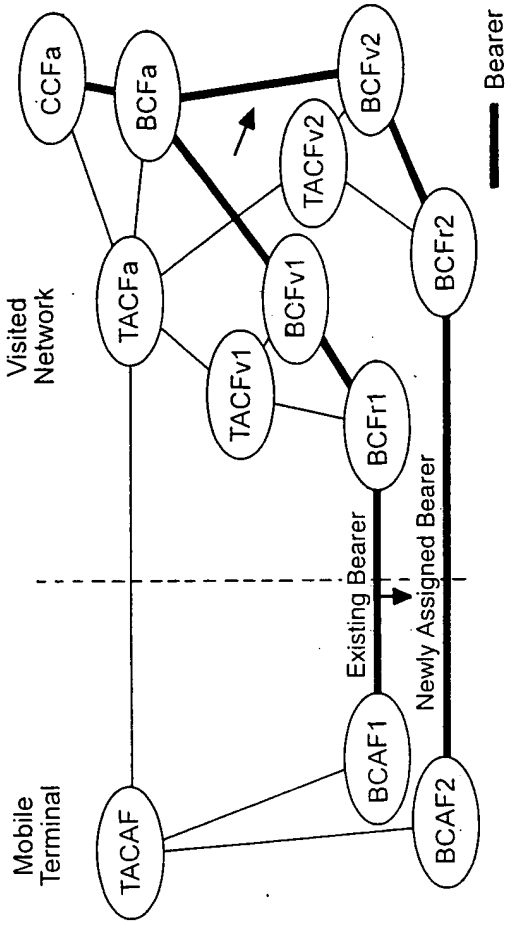
CONTINUED FROM FIG. 49



PRINT OF DRAWINGS
AS ORIGINALLY FILED

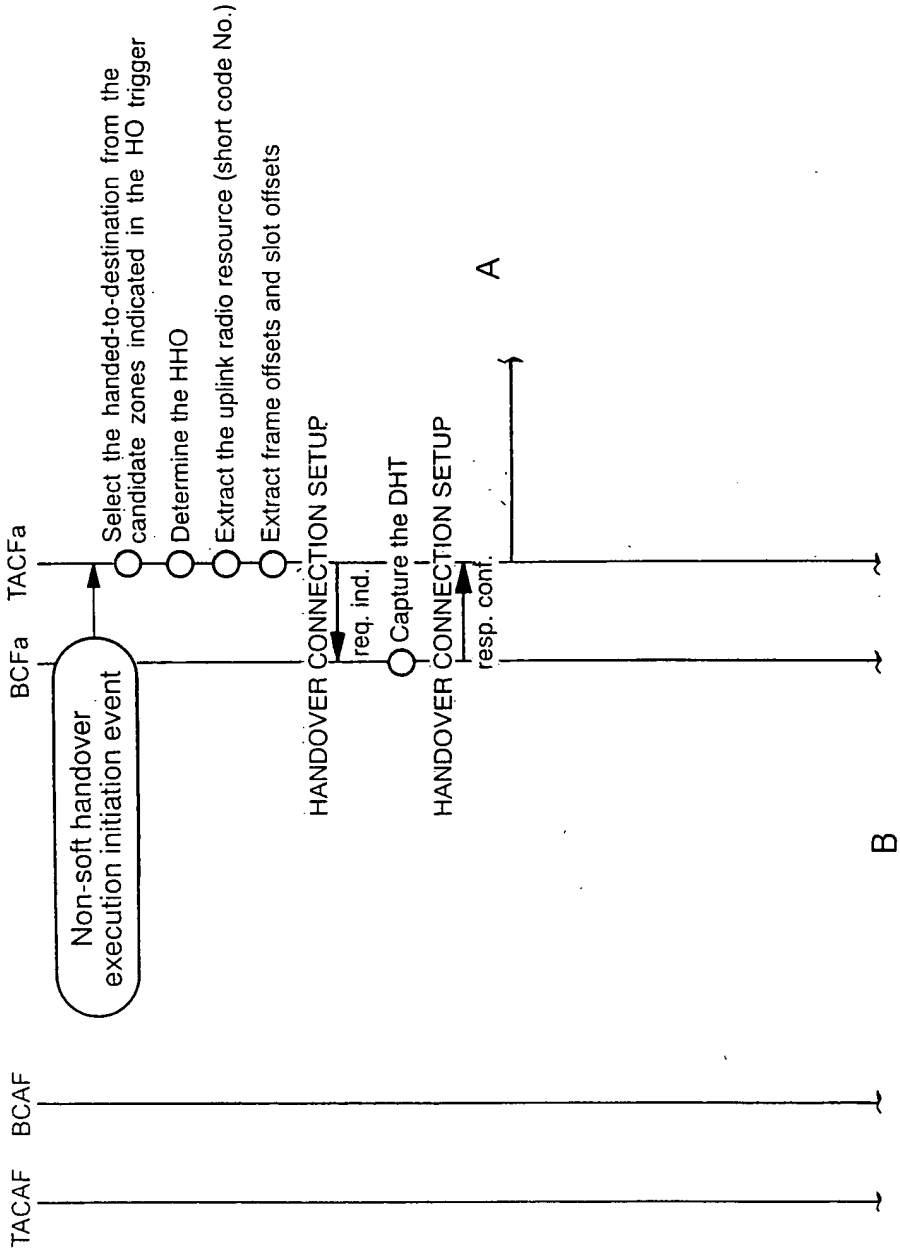
09403431 "090200"

FIG. 50



PRINT OF DRAWINGS
AS ORIGINALLY FILE

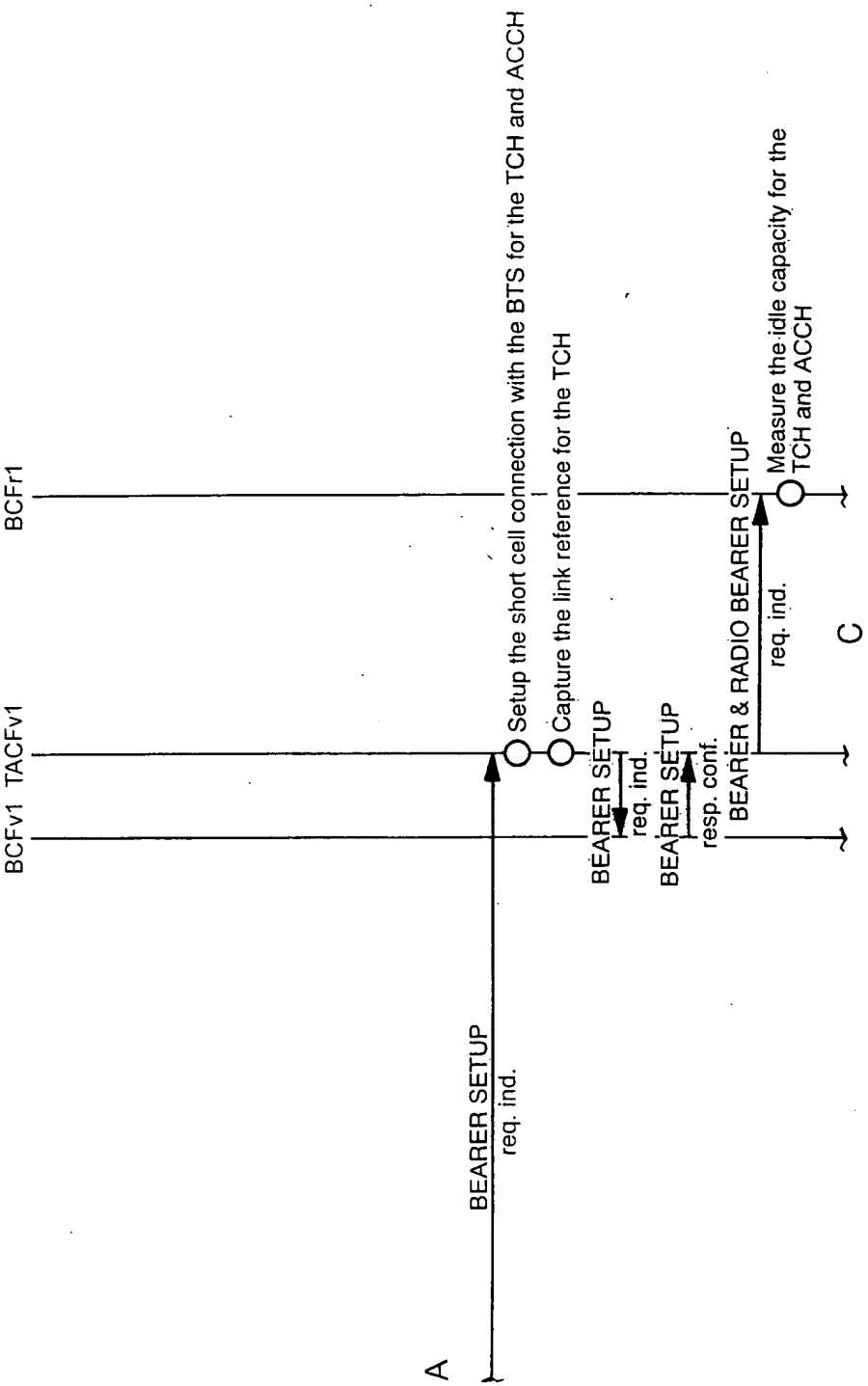
FIG. 51



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CONTINUED FROM FIG. 51

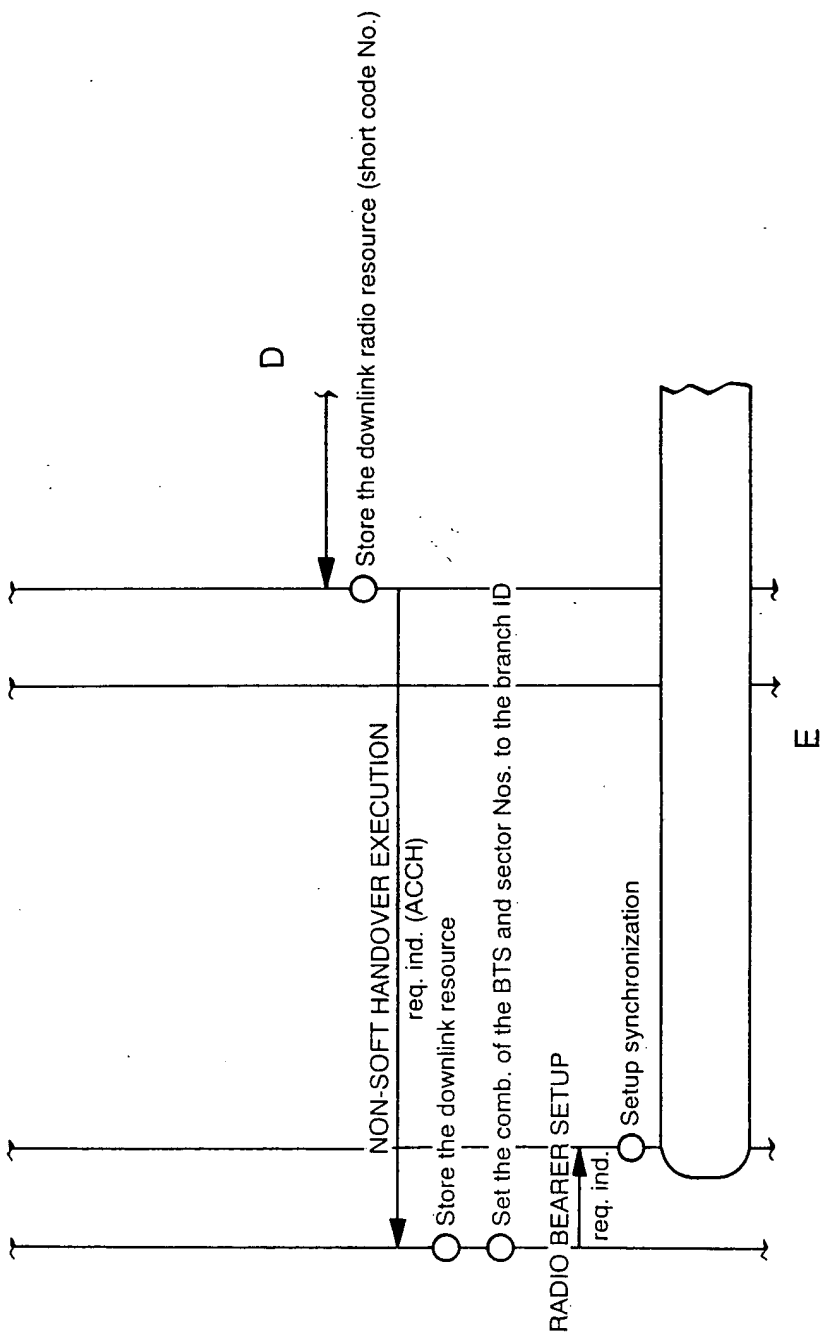


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CONTINUED FROM FIG. 51



PRINT OF DRAWINGS
AS ORIGINALLY FILED

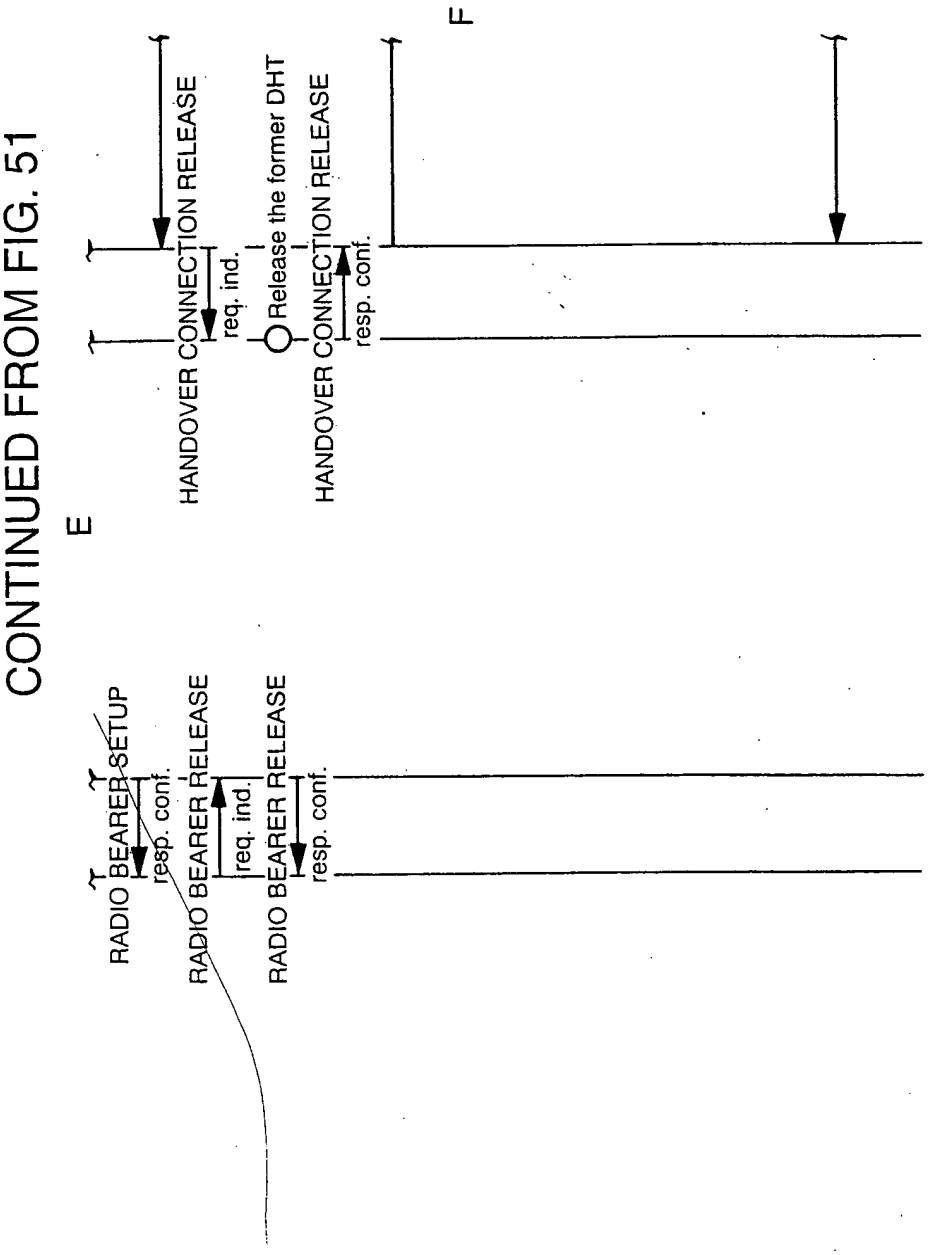
06220 "P2160A60

CONTINUED FROM FIG. 51

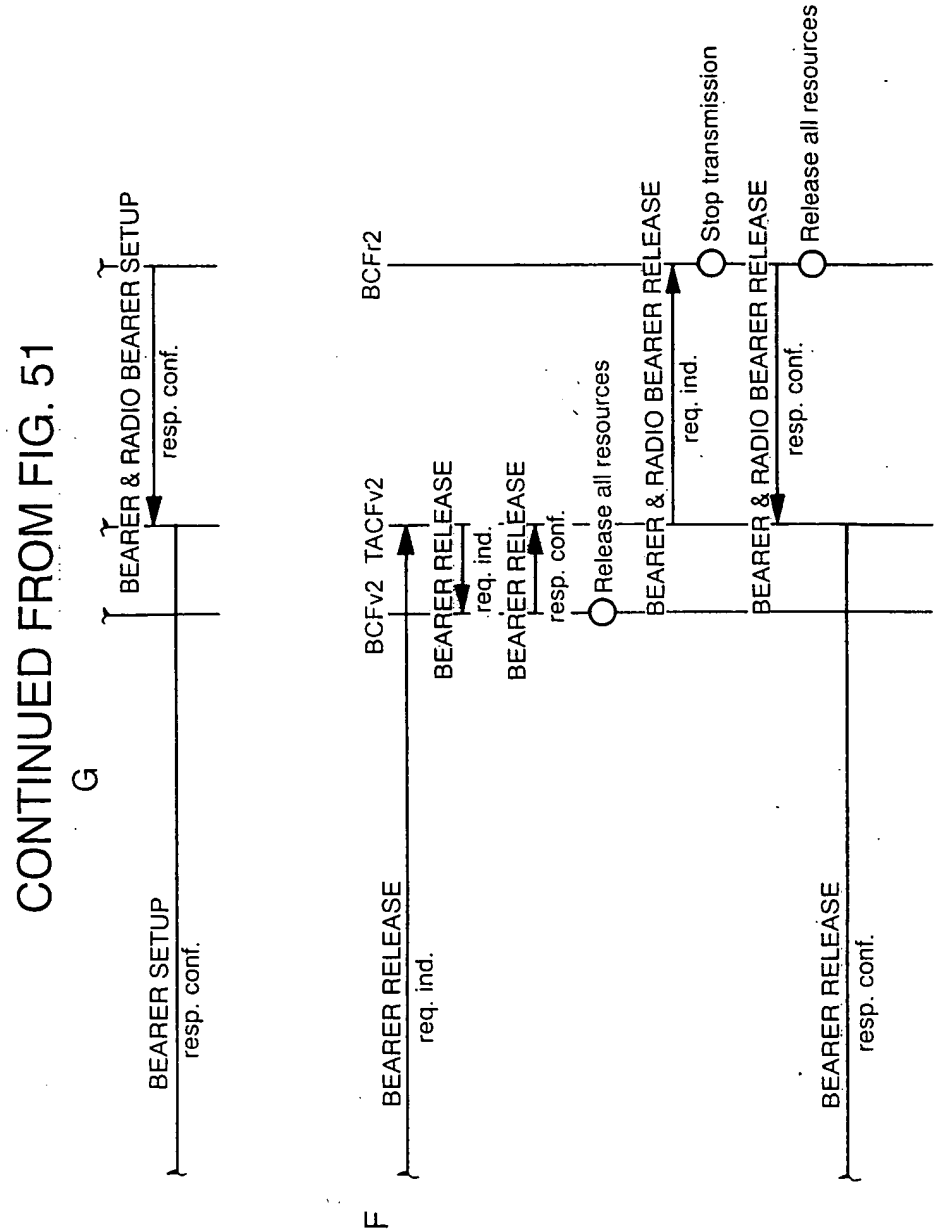
PRINT OF DRAWINGS
AS ORIGINALLY FILED

DECEASED "Effective"

CONTINUED FROM FIG. 51

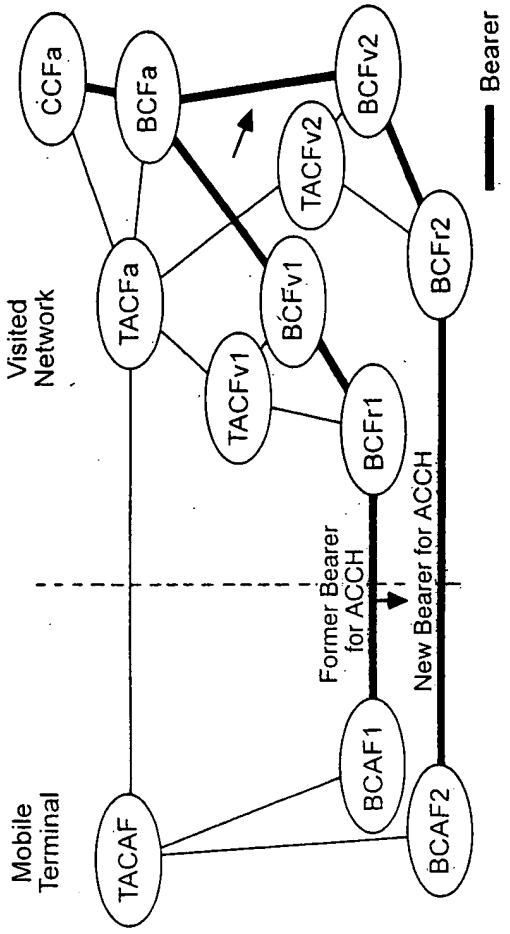


PRINT OF DRAWINGS
AS ORIGINALLY FILED



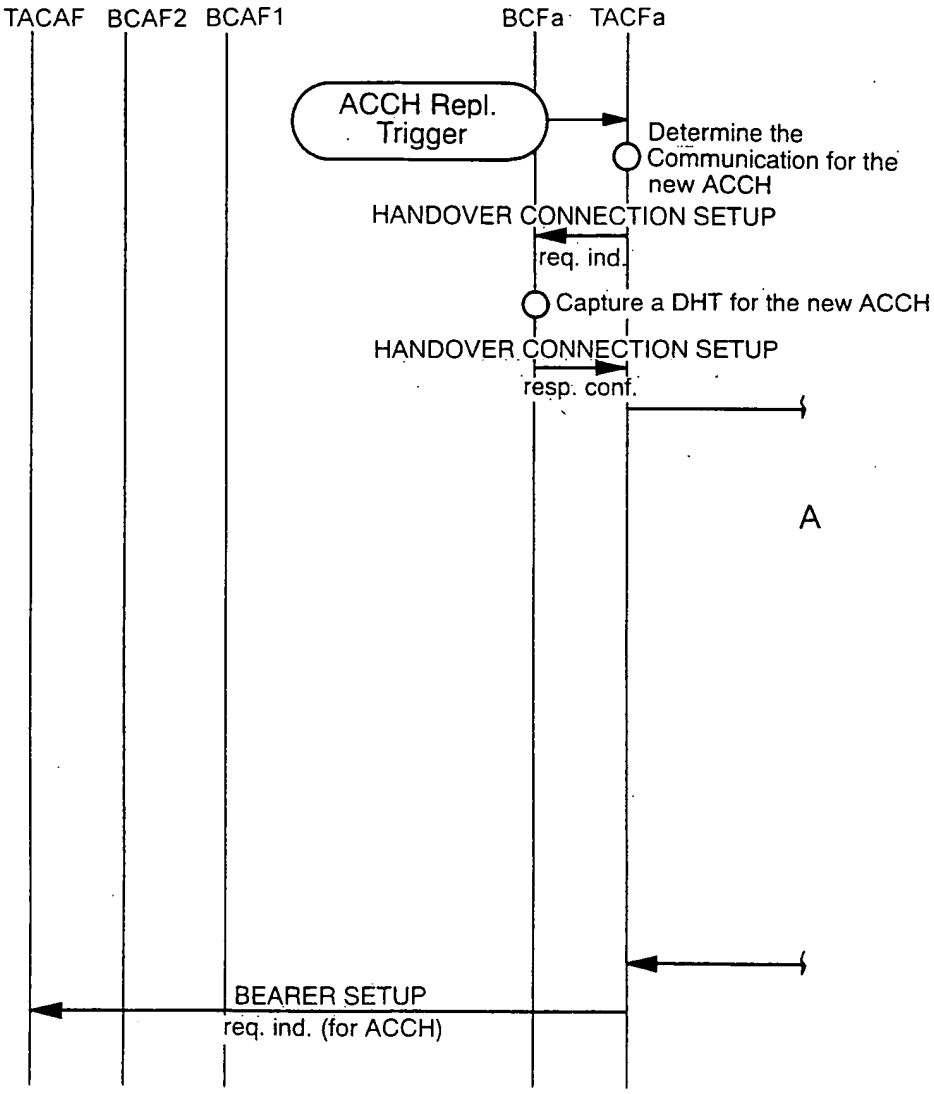
PRINT OF DRAWINGS
AS ORIGINALLY FILED

FIG. 52



PRINT OF DRAWINGS
AS ORIGINALLY FILED

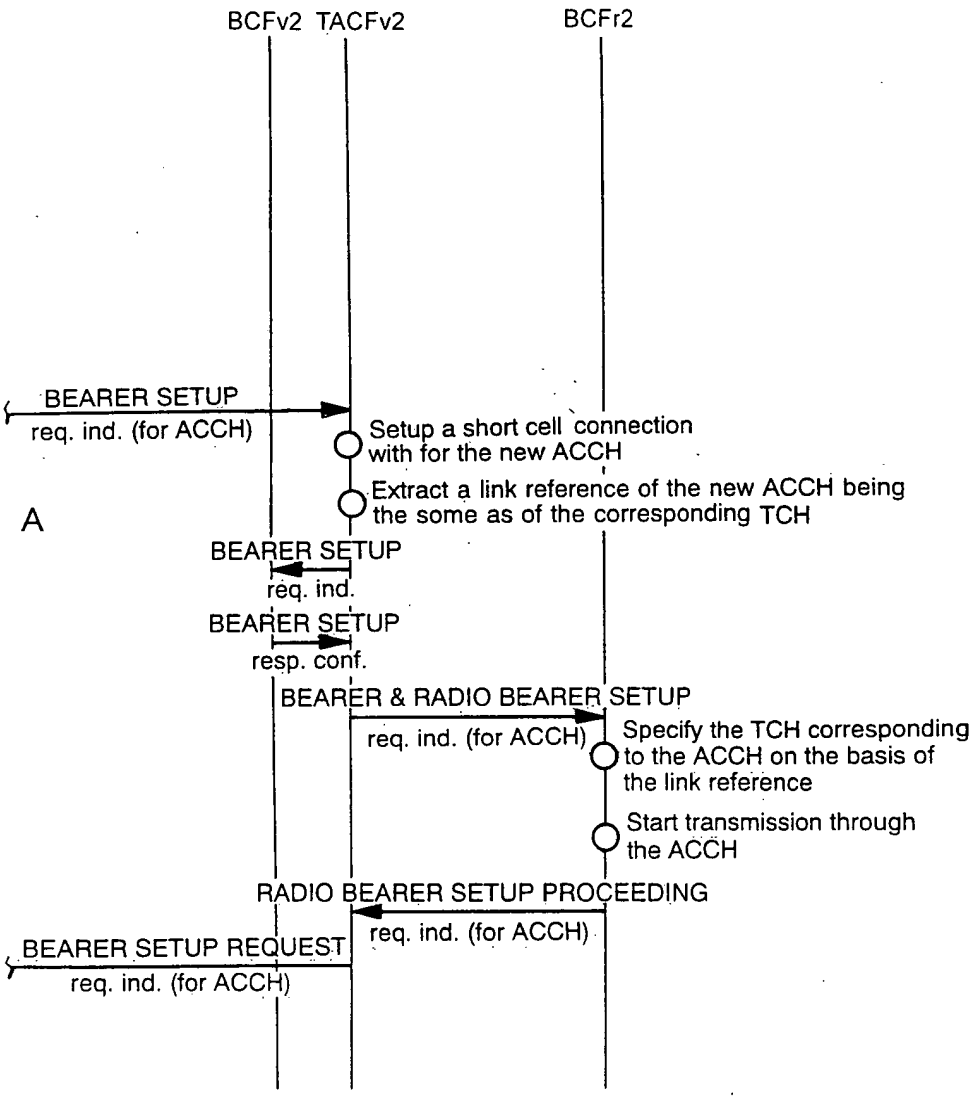
FIG. 53



PRINT OF DRAWINGS
AS ORIGINALLY FILED

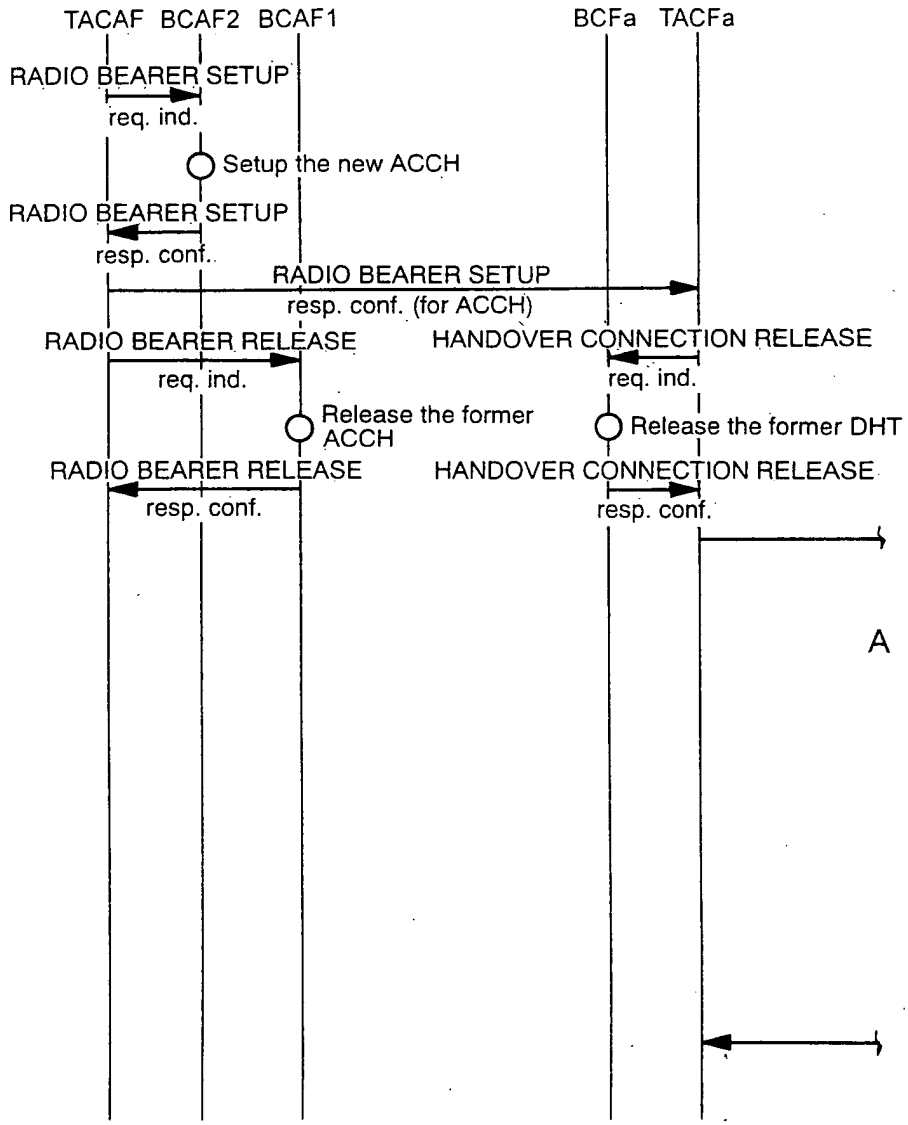
09/403431

CONTINUED FROM FIG. 53



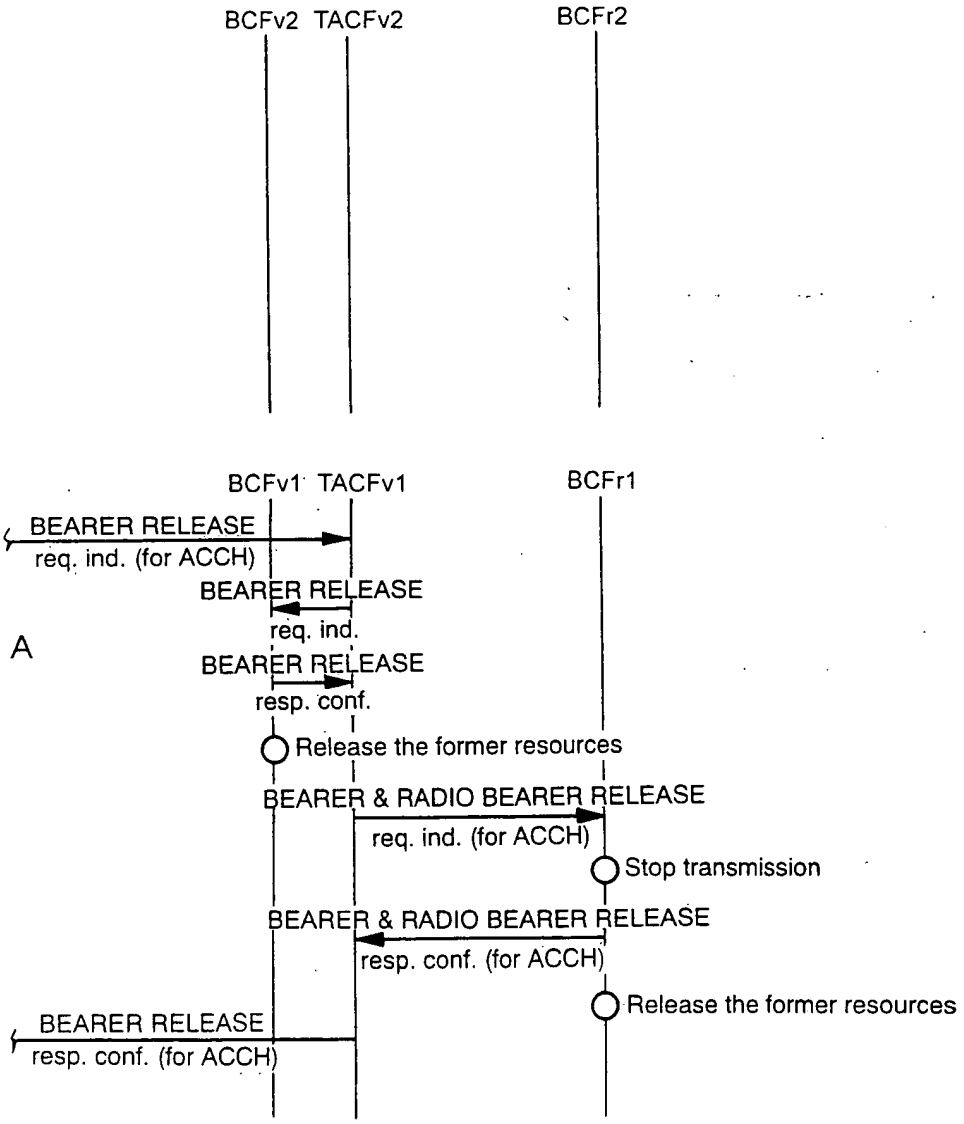
PRINT OF DRAWINGS
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FIG. 54



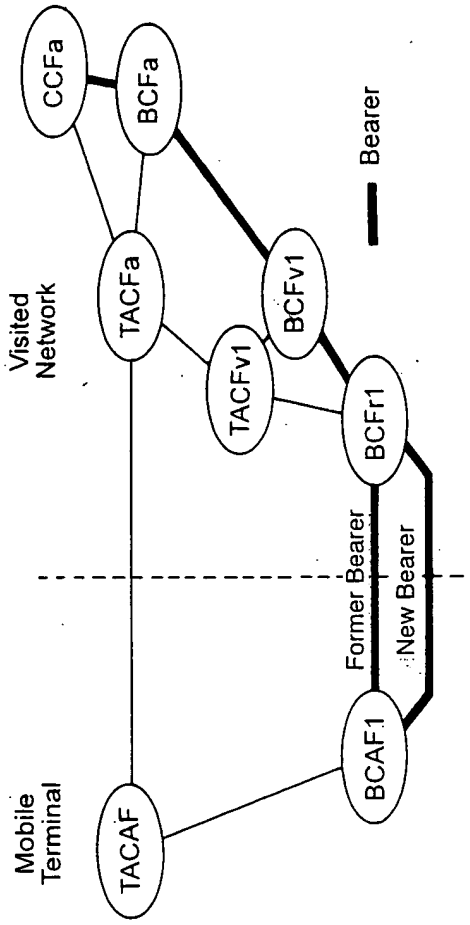
PRINT OF DRAWINGS
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CONTINUED FROM FIG. 54



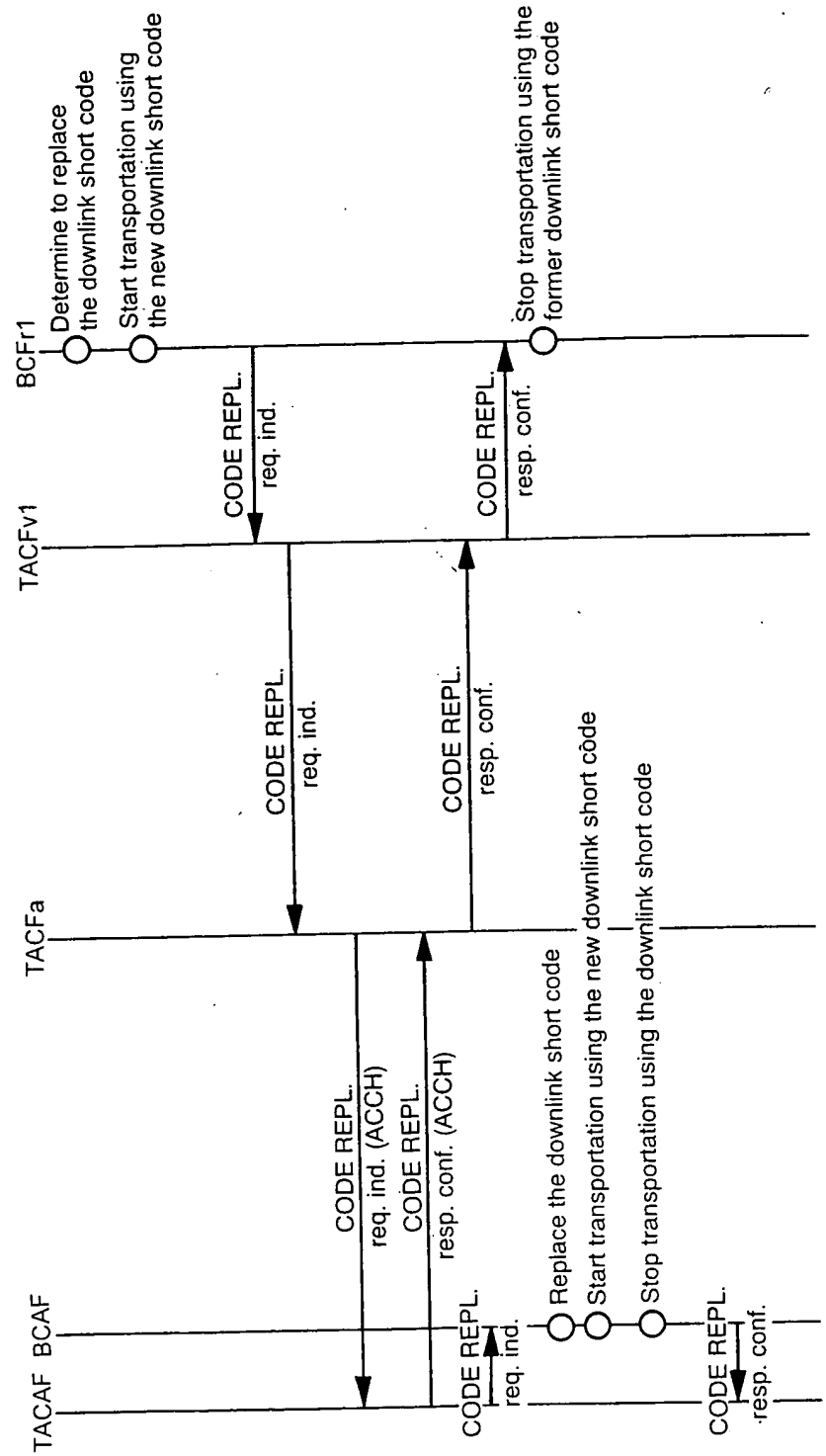
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FIG. 55



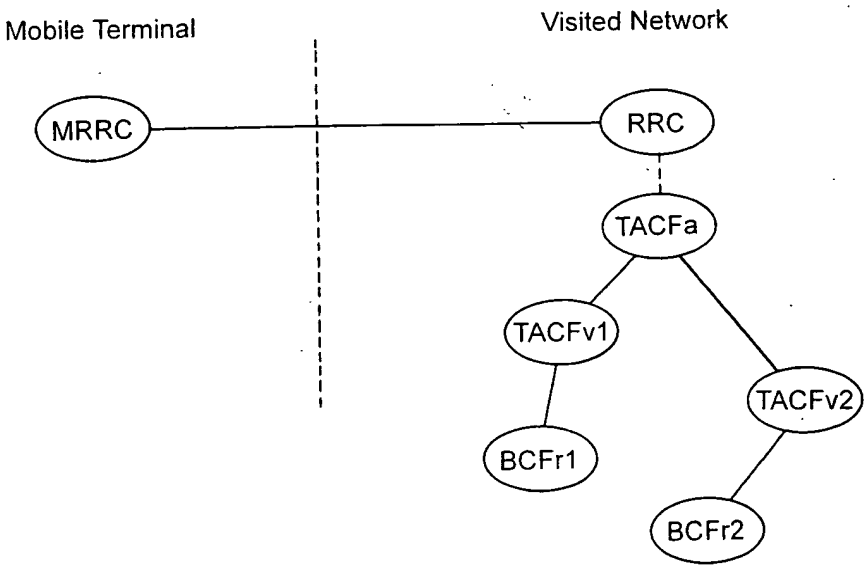
PRINT OF DRAWINGS
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FIG. 56



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FIG. 57



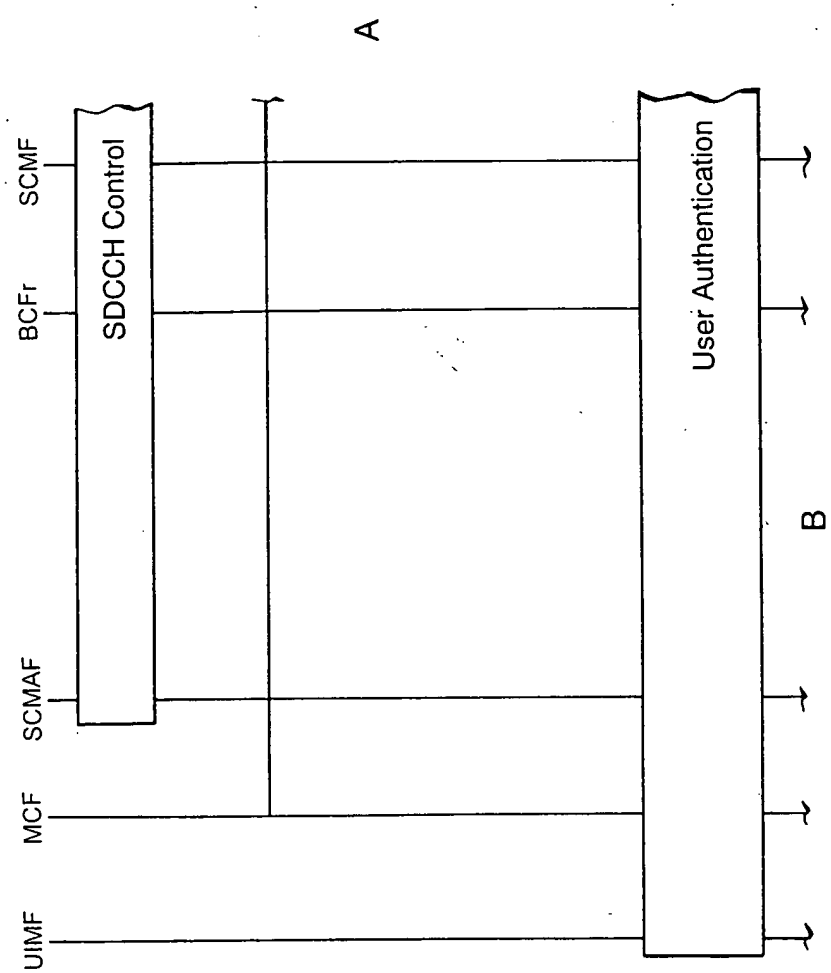
PRINT OF DRAWINGS
AS ORIGINALLY FILE

FIG. 59

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DOCID: "EP 1006743A1"

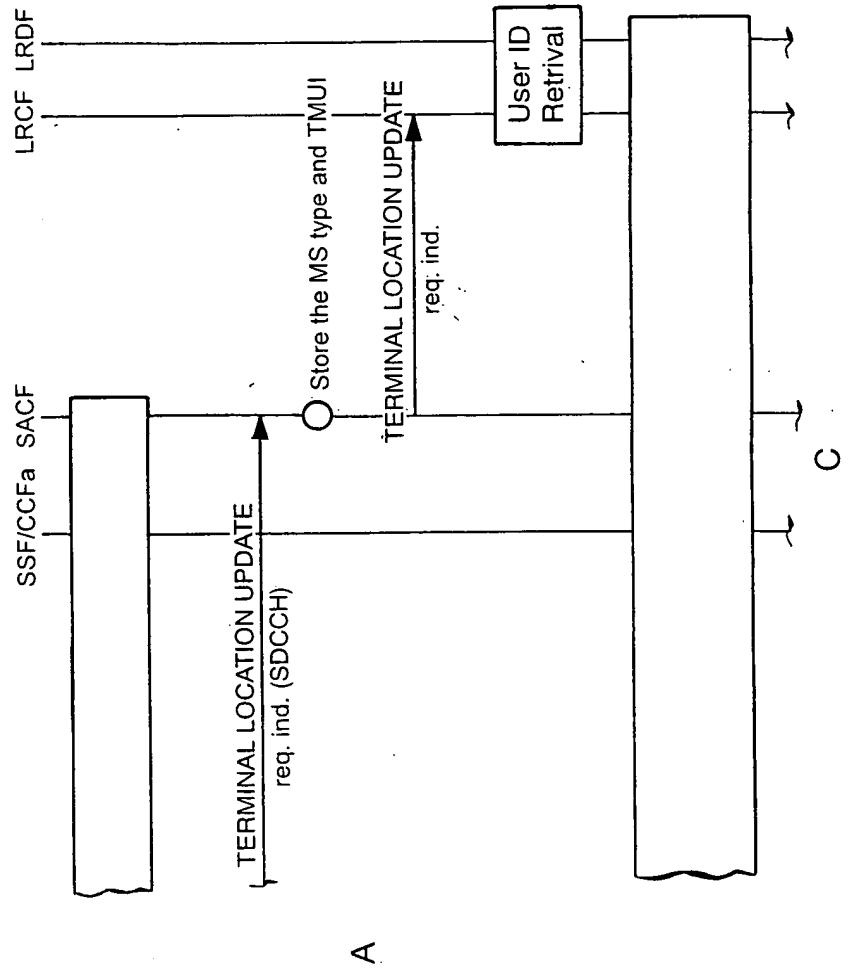
FIG. 60



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CONTINUED FROM FIG. 60



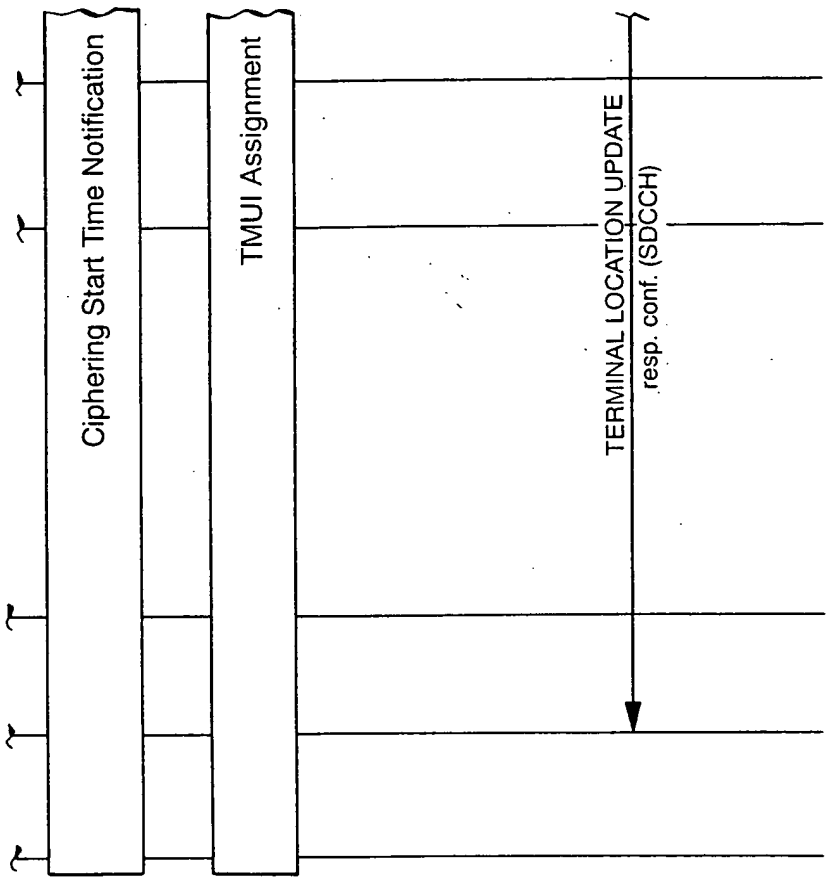
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DOCKET TECHNO

CONTINUED FROM FIG. 60

B

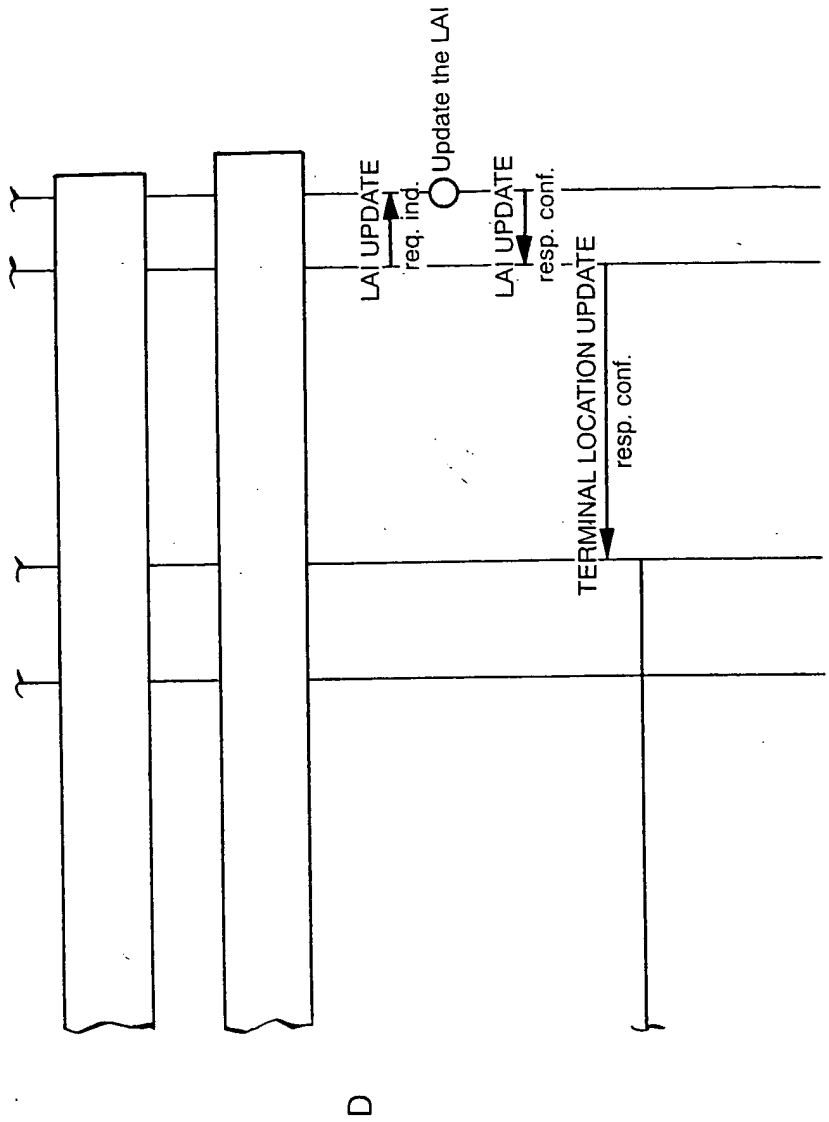
D



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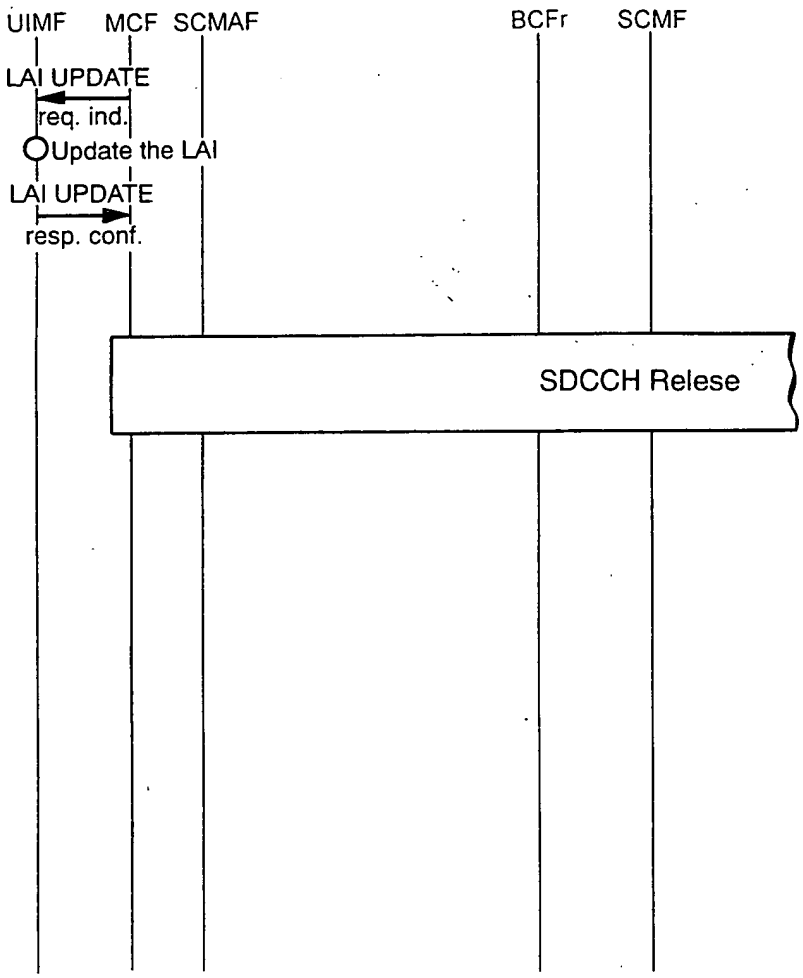
DOCKET TECHNOLOGY

CONTINUED FROM FIG. 60



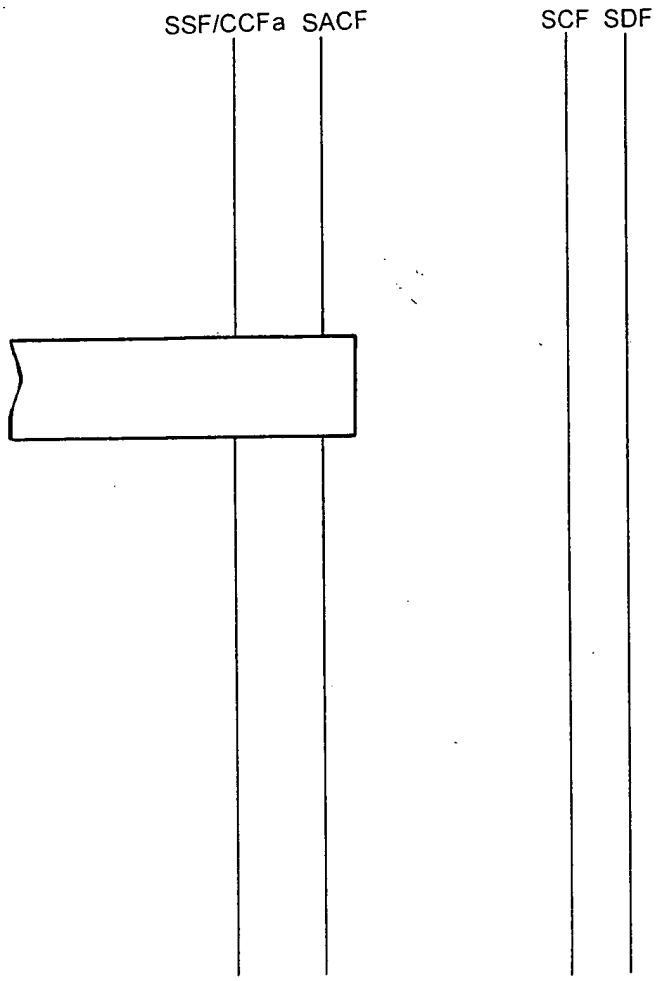
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FIG. 61



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CONTINUED FROM FIG. 61



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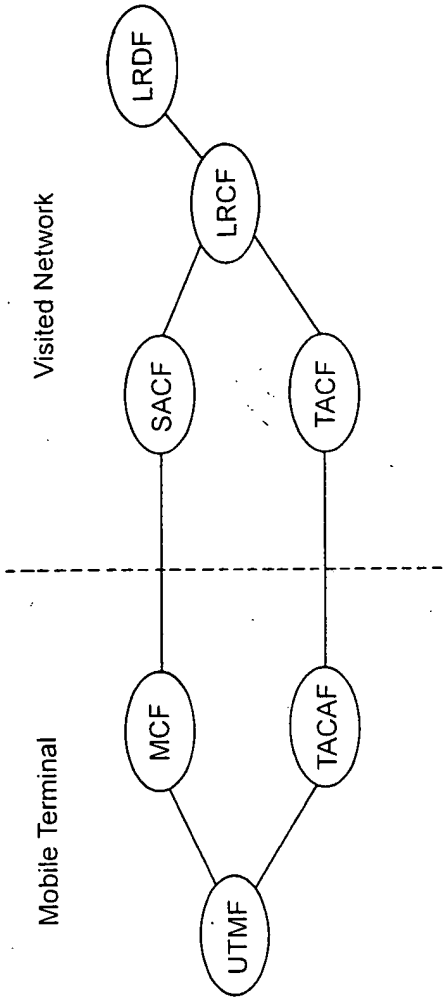


FIG. 62

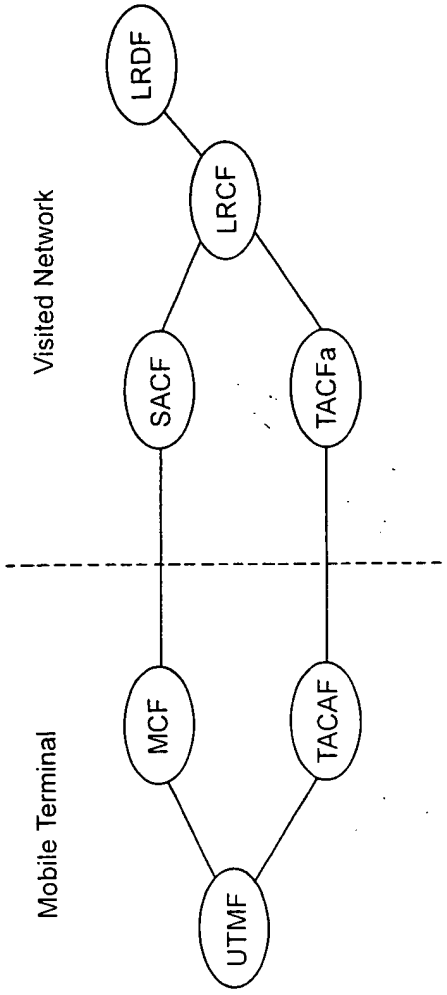
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FIG. 63

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DOCID: EP1201060

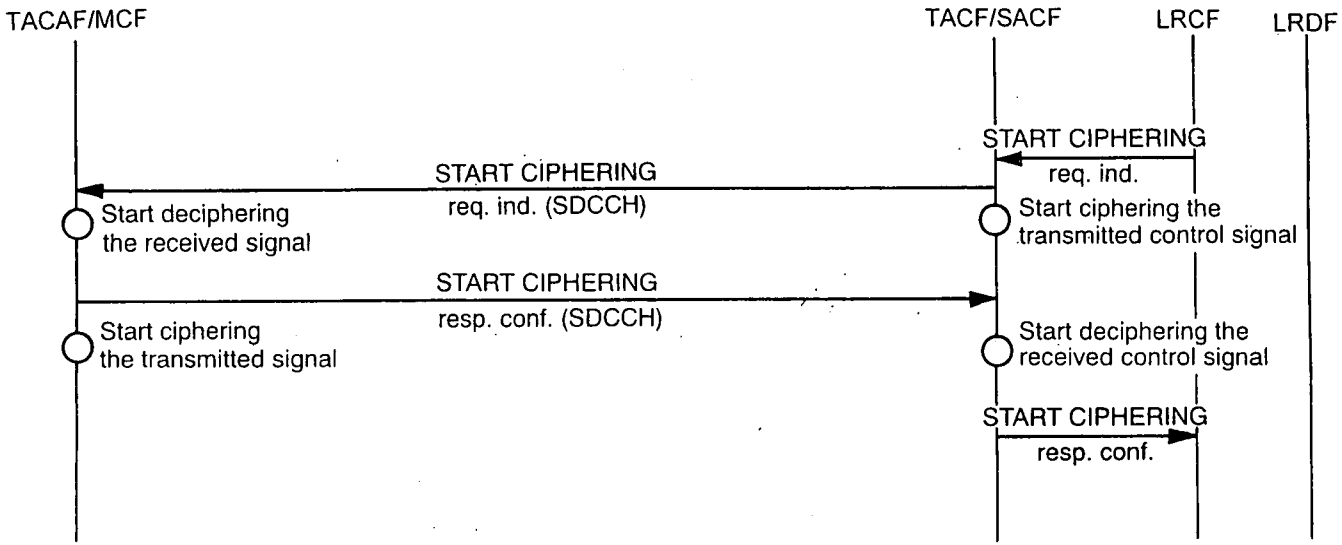
FIG. 64



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FIG. 65



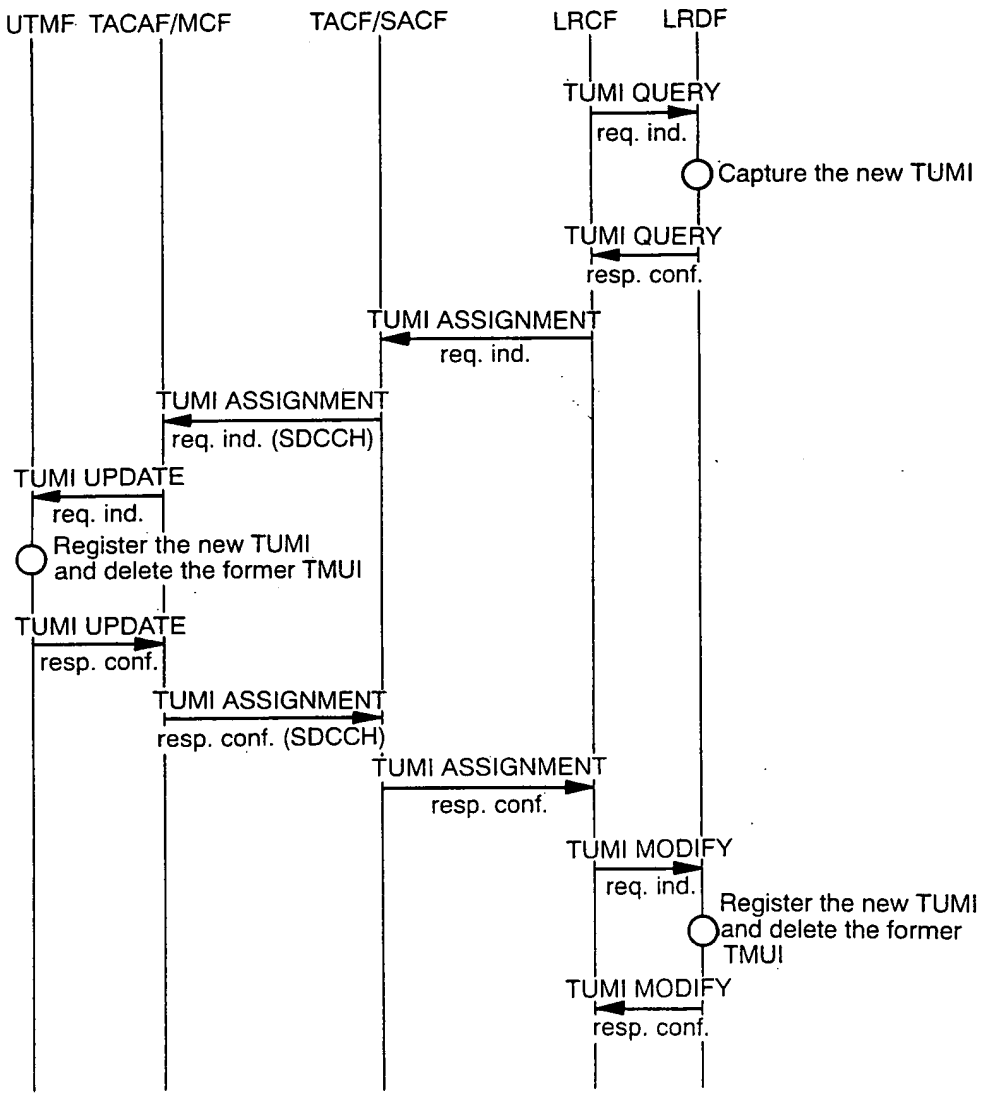
The ciphering key is delivered from LRDF and UIMF during the user authentication.

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FIG. 66

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FIG. 67



1) Transportation between MCF and SACF is for user authentication with non-call related case.
2) Transportation between TACAF and TACF is for user authentication with call related case.

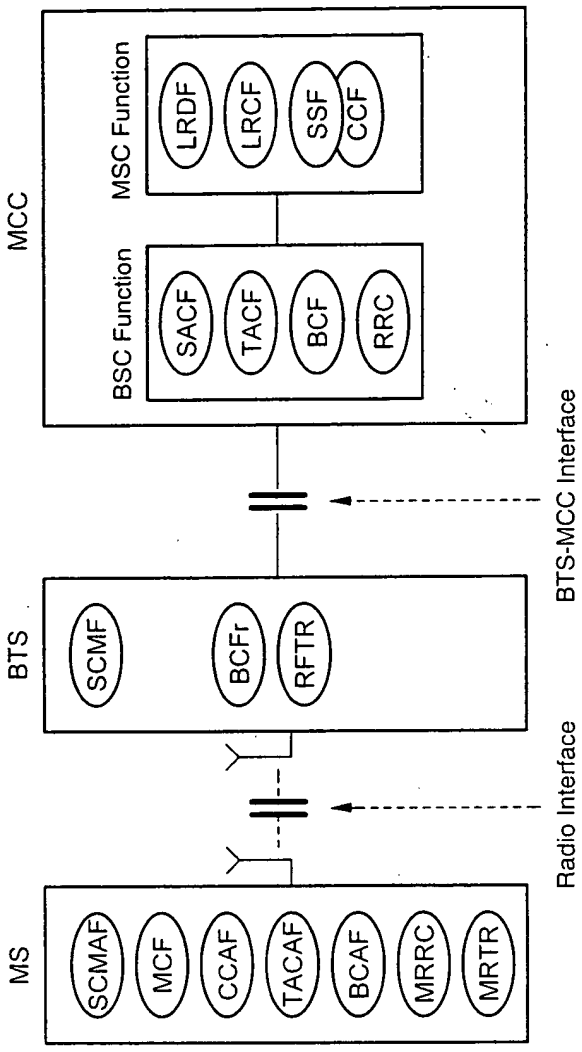
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FIG. 68

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DOCKET TECHNO

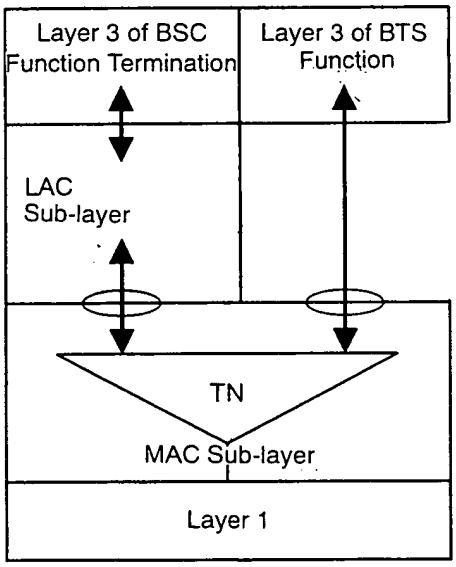
FIG. 69



MS: Mobile Station
BTS: Base Transceiver System
MCC: MOBILE Communications Control Center

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FIG. 70



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DOCKET TECHNOLOGY

FIG. 71

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FIG. 72

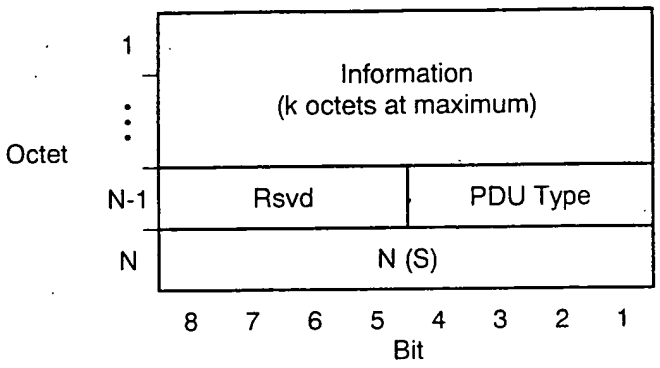


FIG. 73

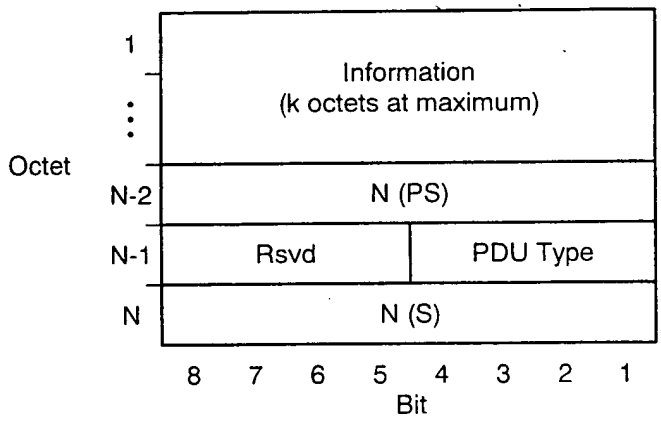
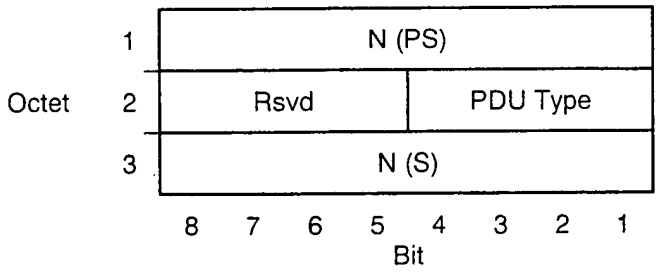


FIG. 74



DOCKET ALARM

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FIG. 75

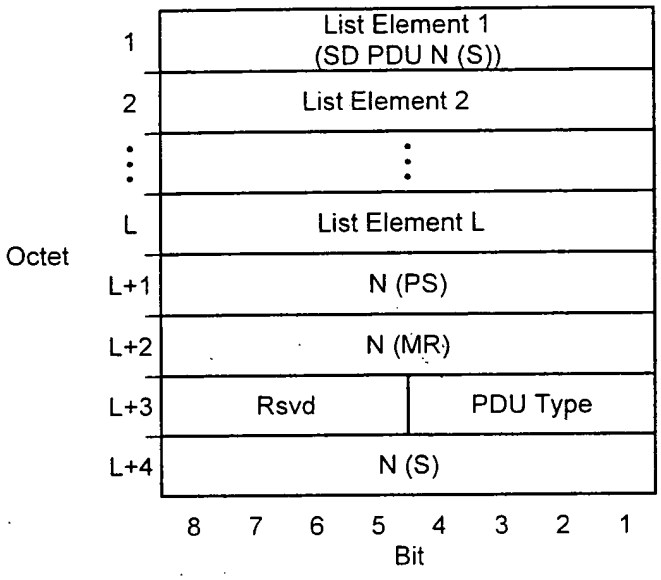
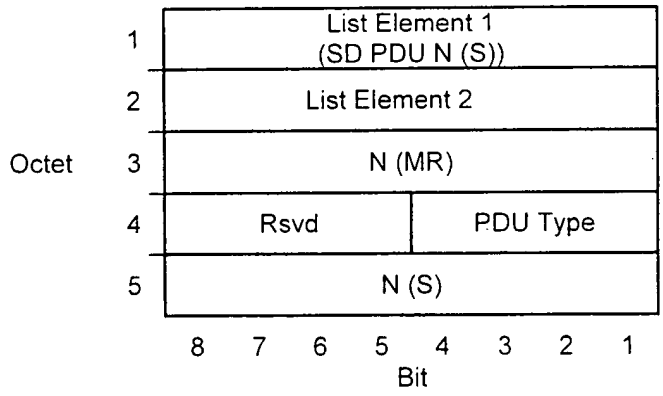


FIG. 76



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FIG. 77

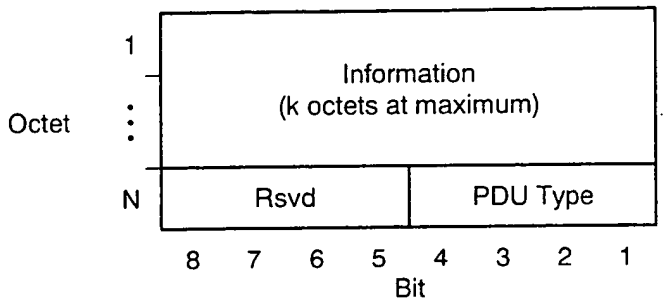


FIG. 78

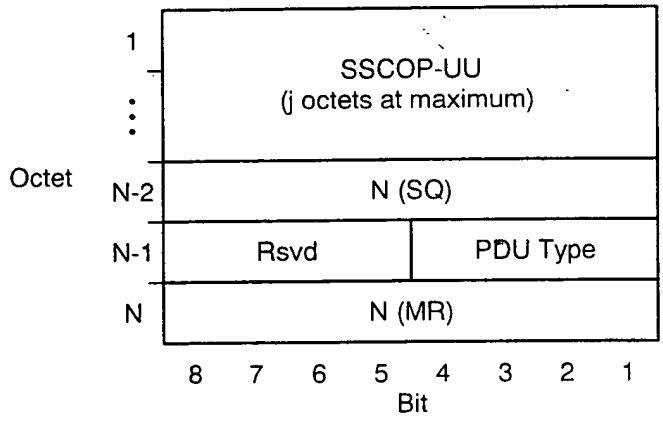
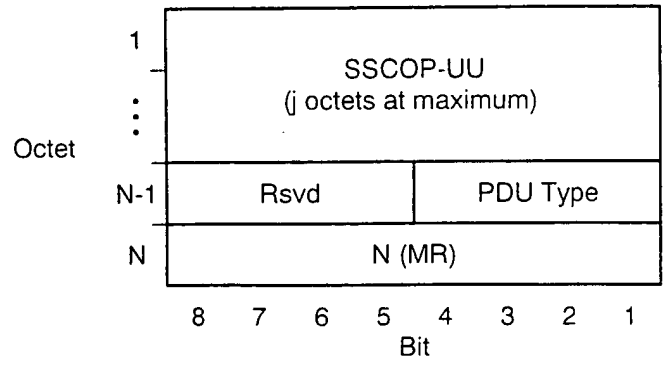


FIG. 79



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FIG. 80

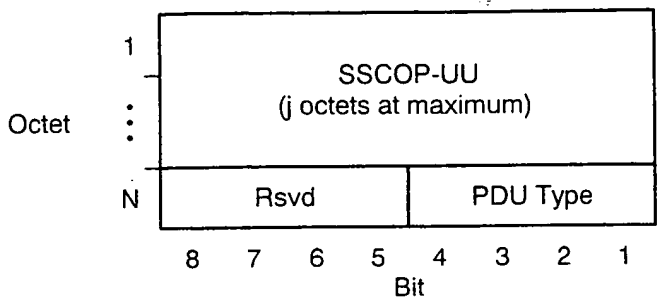


FIG. 81

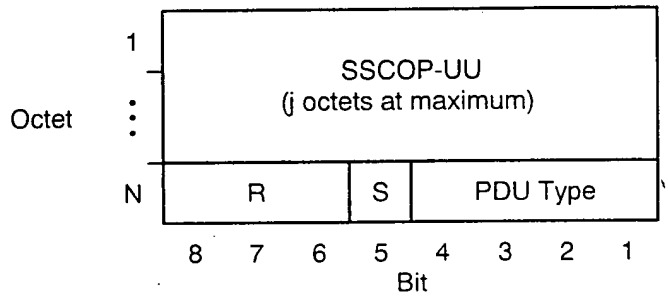
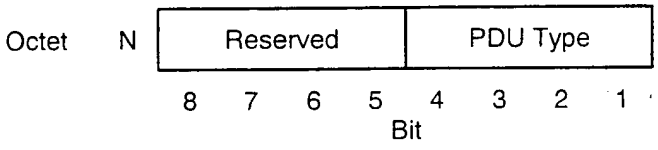


FIG. 82



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FIG. 83

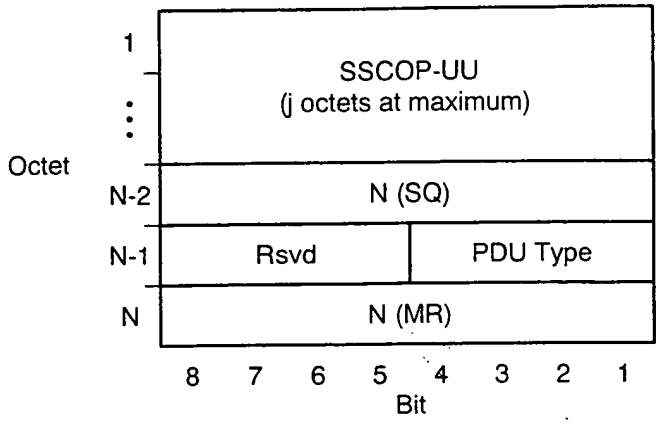


FIG. 84

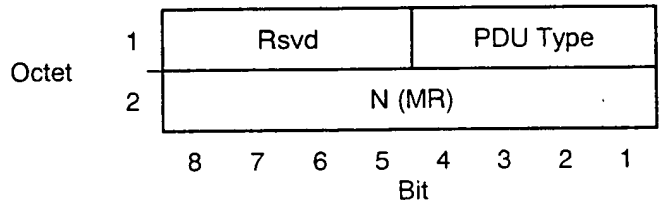
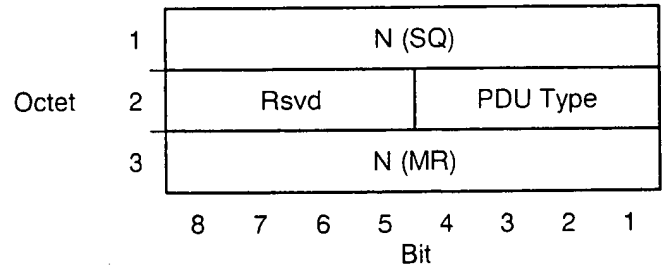
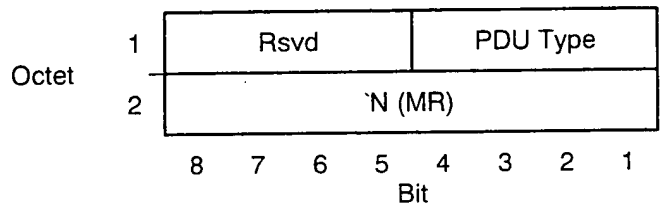


FIG. 85



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FIG. 86



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FIG. 87

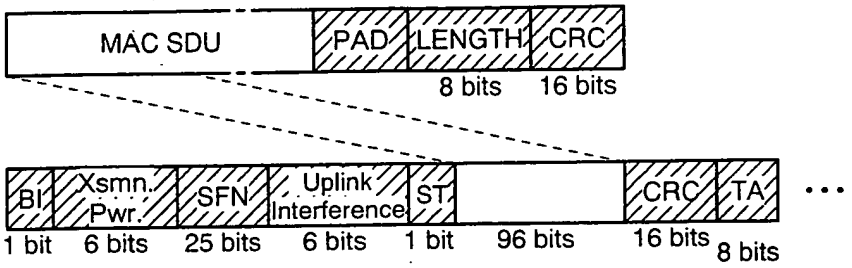


FIG. 88

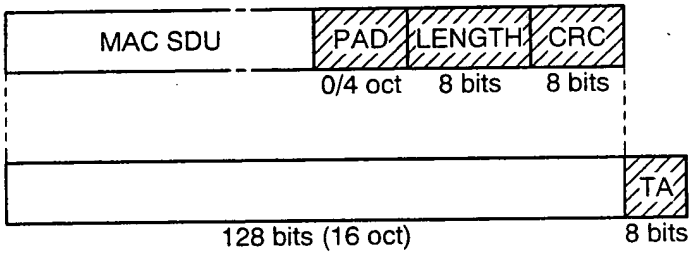
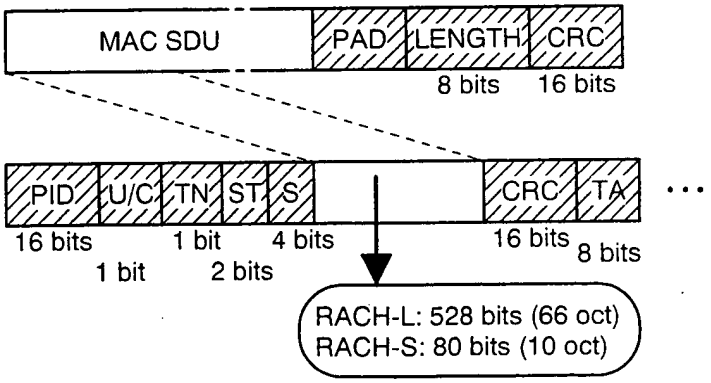


FIG. 89



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FIG. 90

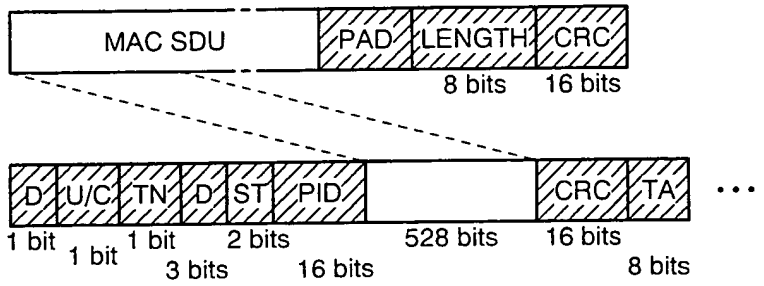


FIG. 91

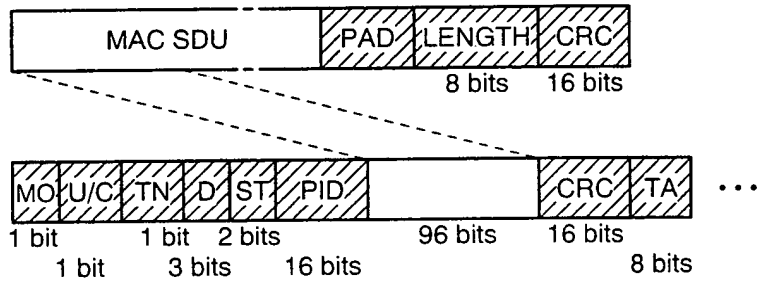
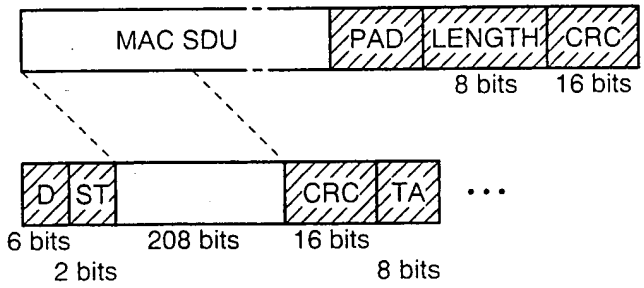


FIG. 92



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FIG. 93

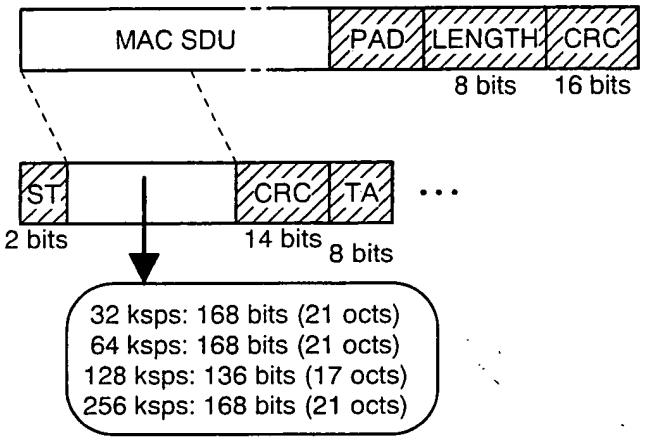
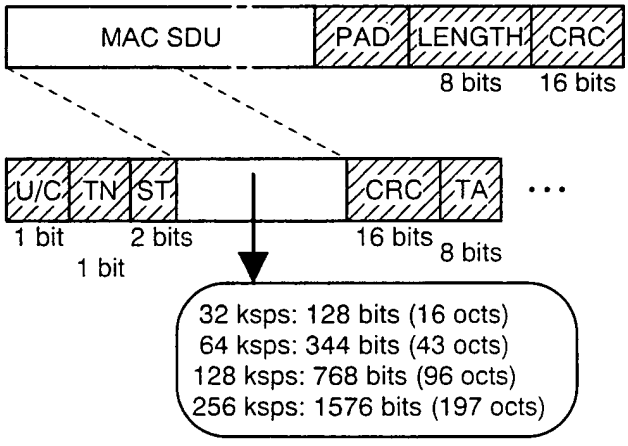
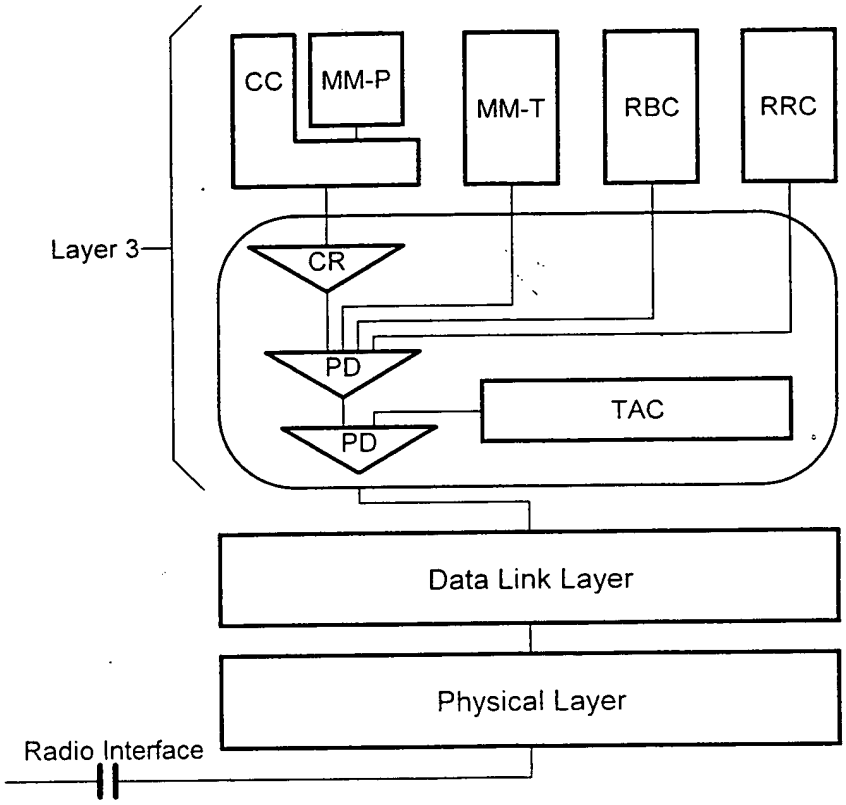


FIG. 94



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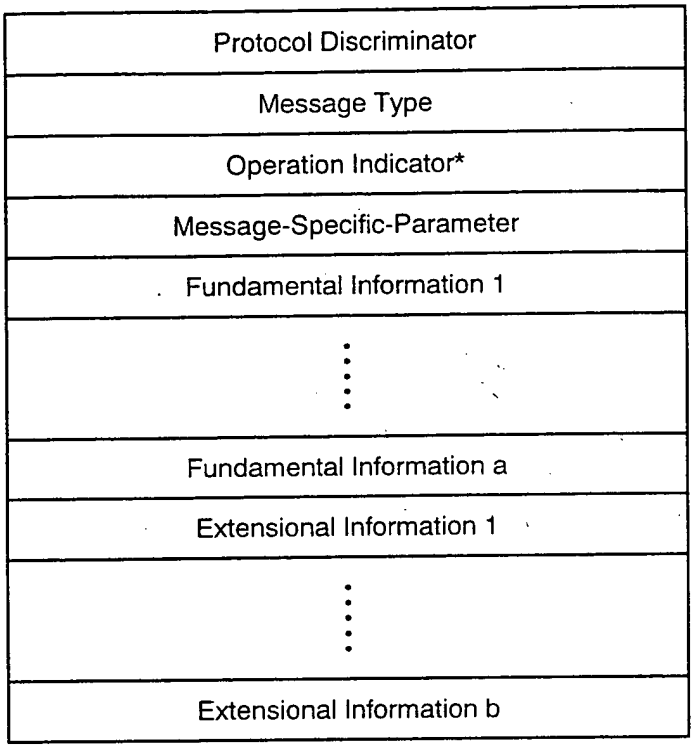
FIG. 95



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FIG. 96

BASIC FORMAT OF RBC ENTITY MESSAGE



Message-specific-parameter field contains at least one unique parameter of the message.

Each fundamental information field includes at least one parameter in conformance with the procedure that the message initiates. In other words, fundamental information elements in RBC entity messages vary with the necessary procedure. Fundamental information filed can be used without any design change of the invented system.

Extensional information field may be used when the performance of the invented system is extended.

Fundamental information fields can be arranged in random order and extensional information fields can be arranged in random order.

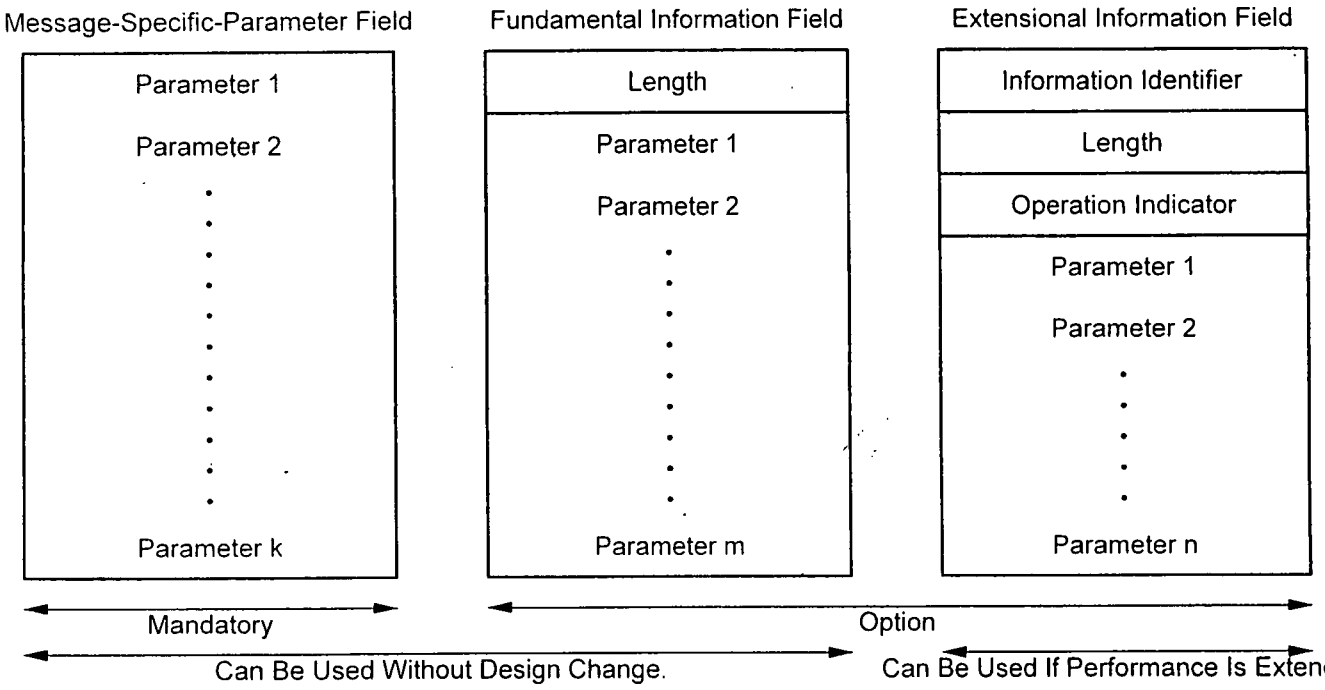
Operation indicator field asterisked is not included in the RBC entity message for the invented system. If a new type of message will be used in the system due to performance extension in the future, this field will be used.

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FIG. 97

STRUCTURES OF FRAMES OF RBC ENTITY MESSAGE



Message-specific-parameter field is mandatory.

As to each parameter, if the length is variable, the length field indicates that there is no instruction.

As to each parameter, if there is not a parameter that may be used optionally, this fact is indicated by a bit or bits for indicating whether there is a parameter or not.

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FIG. 98

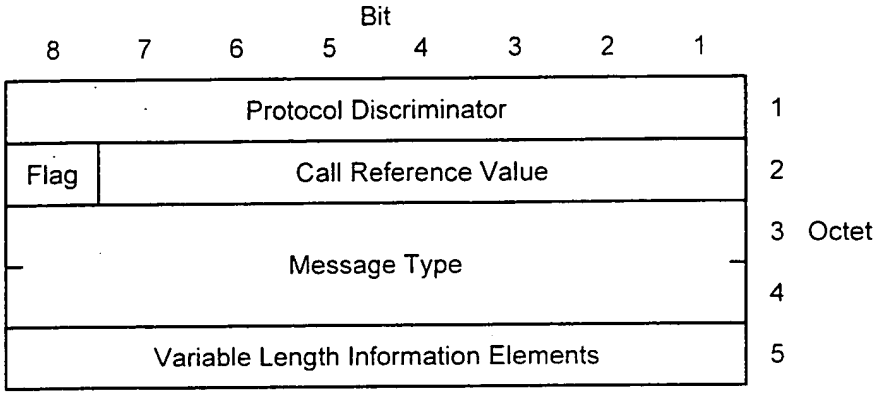


FIG. 99

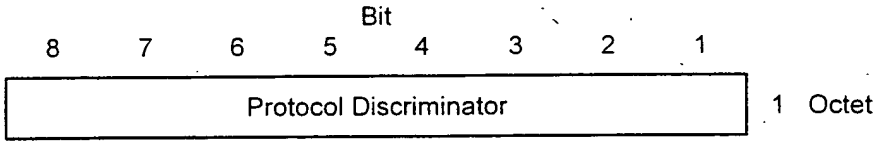
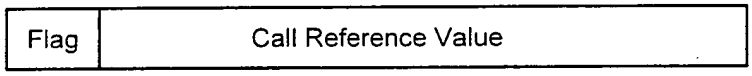
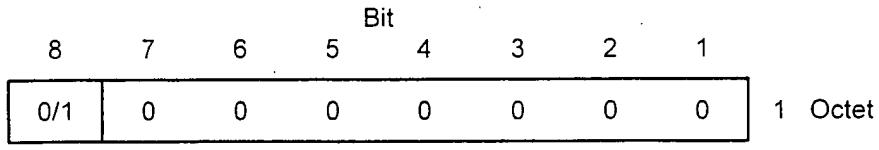


FIG. 100



Call Reference Flag Bit 8	
0	the message is sent from the side that originated the call reference.
1	the message is sent to the side that originated the call reference.



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FIG. 101

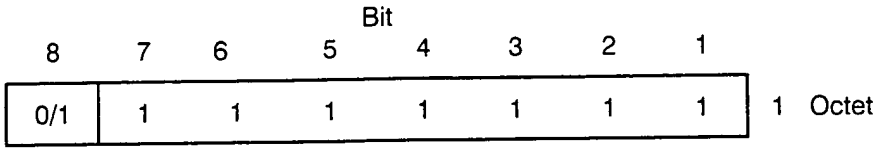


FIG. 102

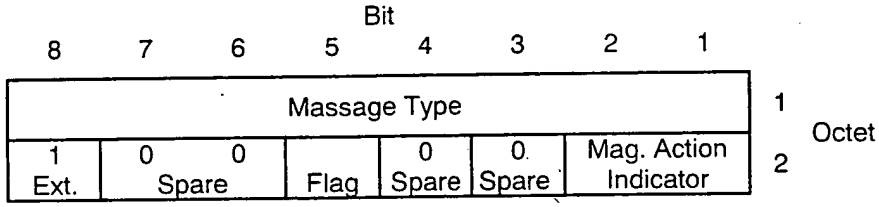
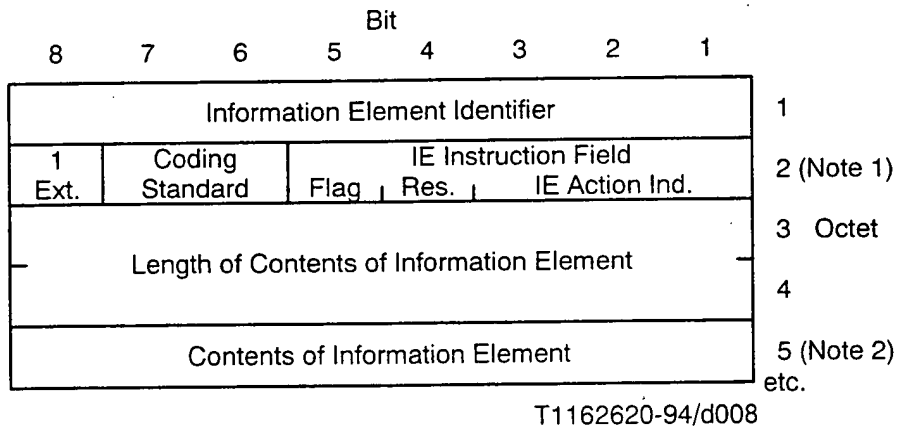


FIG. 103



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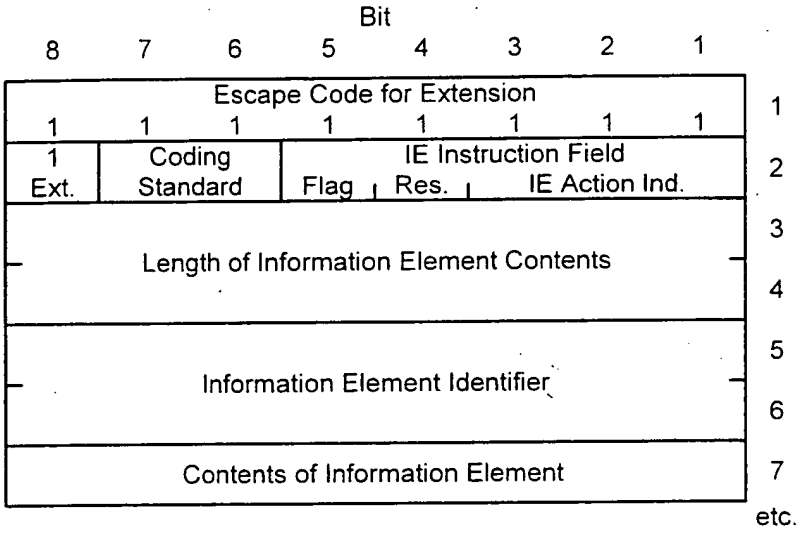
Notes

1 IE instruction field (bits 1 to 5 of octet 2) is interpreted only for unexpected or unrecognized information element or information element with unrecognized contents. With respect to some information elements according to ITU-T Recommendation Q.2931, the value allocated in the IE instruction field is restricted to a combination of limited values (Refer to descriptions of respective infotrmation elements).

2 Usage example of the subfield identifier will be described in Appendix L.

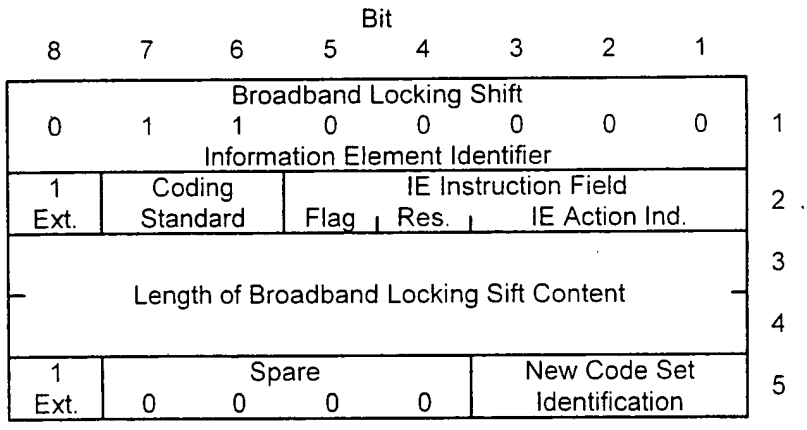
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FIG. 104



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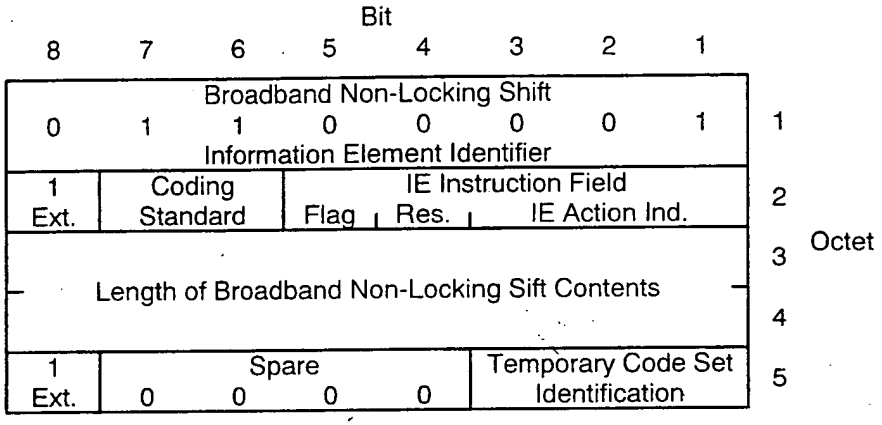
FIG. 105



T1162640-94/d010

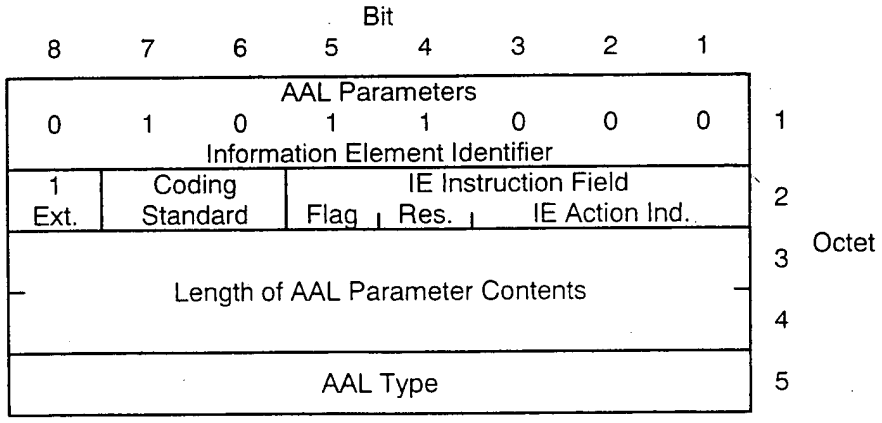
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FIG. 106



T1162650-94/d01

FIG. 107



Further contents depend on AAL Type (See Figs. 108-110)

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FIG. 108

(further contents for ALL type 1)

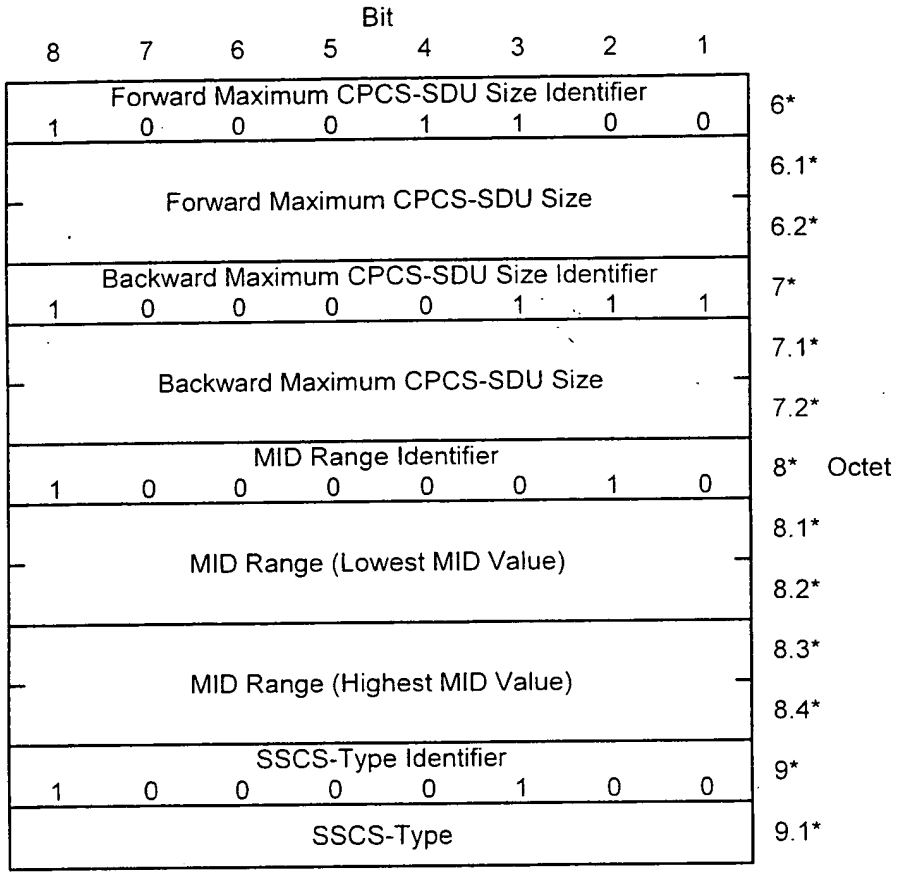
Bit 8	7	6	5	4	3	2	1	Octet
Subtype Identifier								6
1	0	0	0	0	1	0	1	
Subtype								6.1
CBR Rate Identifier								7
1	0	0	0	0	1	1	0	
CBR Rate								7.1
Multiplier Identifier								8* (Note)
1	0	0	0	0	1	1	1	
Multiplier								8.1*(Note)
								8.2*(Note)
Source Clock Frequency Recovery Method Identifier								9*
1	0	0	0	1	0	0	0	
Source Clock Frequency Recovery Method								9.1*
Error Correction Method Identifier								10*
1	0	0	0	1	0	0	1	
Error Correction Method								10.1*
Structured Data Transfer Block Size Identifier								11*
1	0	0	0	1	0	1	0	
Structured Data Transfer Block Size								11.1*
								11.2*
Partially Filled Cells Method Identifier								12*
1	0	0	0	1	0	1	1	
Partially Filled Cells Method								12.1*

Note
These asterisked octets are included only when octet 7.1 indicates n × 64 kbps or n × 8 kbps.

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FIG. 109

(further contents for ALL type 3/4)



Note
The indication of octet groups 6 through 8 used in connect message is designated in ITU-T Recommendation Q.2931.

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FIG. 110

(further contents for ALL type 5)

Bit 8	7	6	5	4	3	2	1		
Forward Maximum CPCS-SDU Size Identifier								6*	Octet
1	0	0	0	1	1	0	0		
Forward Maximum CPCS-SDU Size								6.1*	
								6.2*	
Backward Maximum CPCS-SDU Size Identifier								7*	
1	0	0	0	0	0	0	1		
Backward Maximum CPCS-SDU Size								7.1*	
								7.2*	
SSCS-Type Identifier								8*	
1	0	0	0	0	1	0	0		
SSCS-Type								8.1*	

Note
The indication of octet groups 6 and 7 used in connect message is designated in ITU-T Recommendation Q.2931.

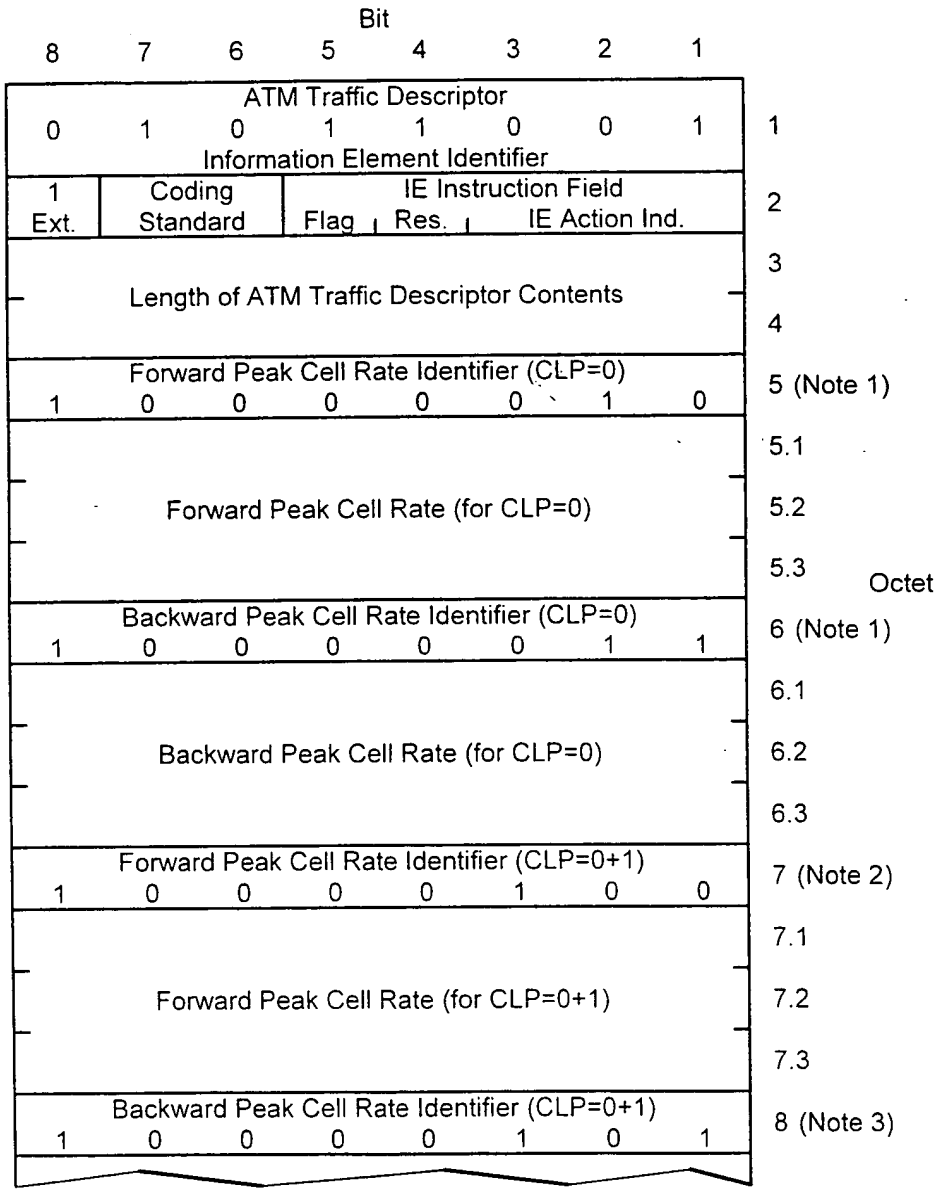
FIG. 111

(further contents for User-defined AAL)

Bit 8	7	6	5	4	3	2	1		
User Defined AAL Information								5.1*	Octet
User Defined AAL Information								5.2*	
User Defined AAL Information								5.3*	
User Defined AAL Information								5.4*	

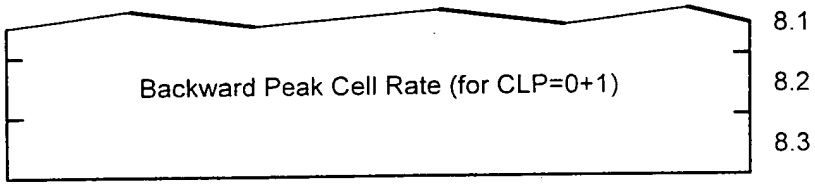
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FIG. 112



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CONTINUDE FROM FIG. 112



T1162710-94/d017

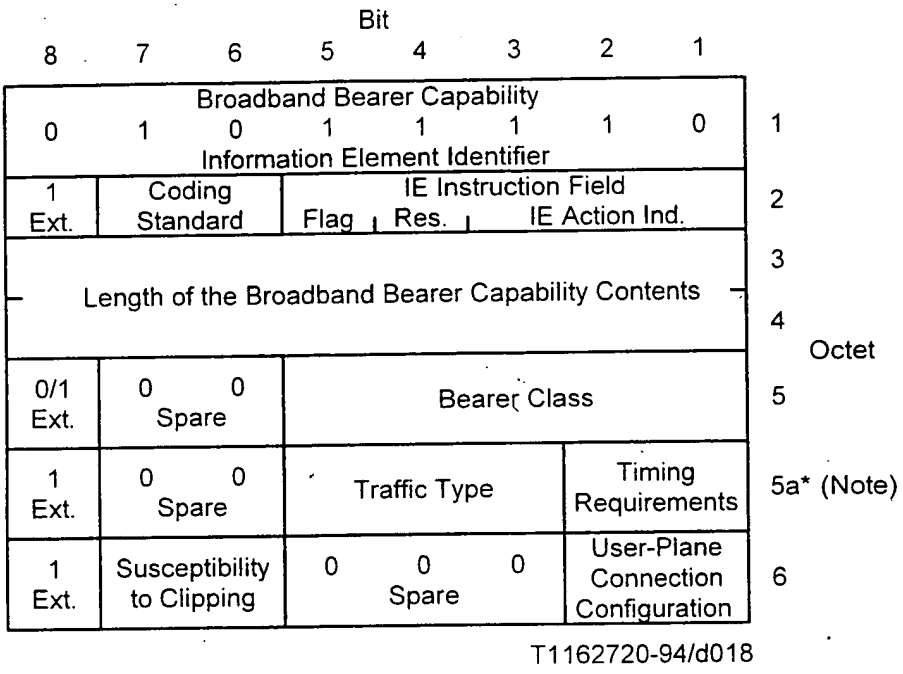
Notes

1 If the peak cell rate for which the CLP is zero is indicated, the difference between the peak cell rate for which the CLP is zero or one and the peak cell rate for which the CLP is zero should be used as the peak cell rate for which the CLP is one in the network resource allocation.

2 If only the peak cell rate for which the CLP is one or zero is indicated, a complete peak cell rate should be used by cells with which the CLP is zero.

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FIG. 113

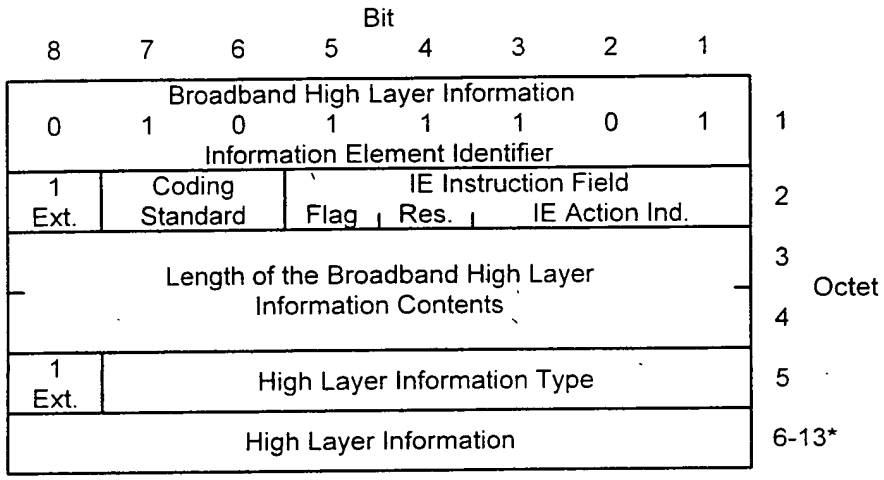


T1162720-94/d018

Note
The asterisked octet can be included when octet 5 indicates bearer class X.

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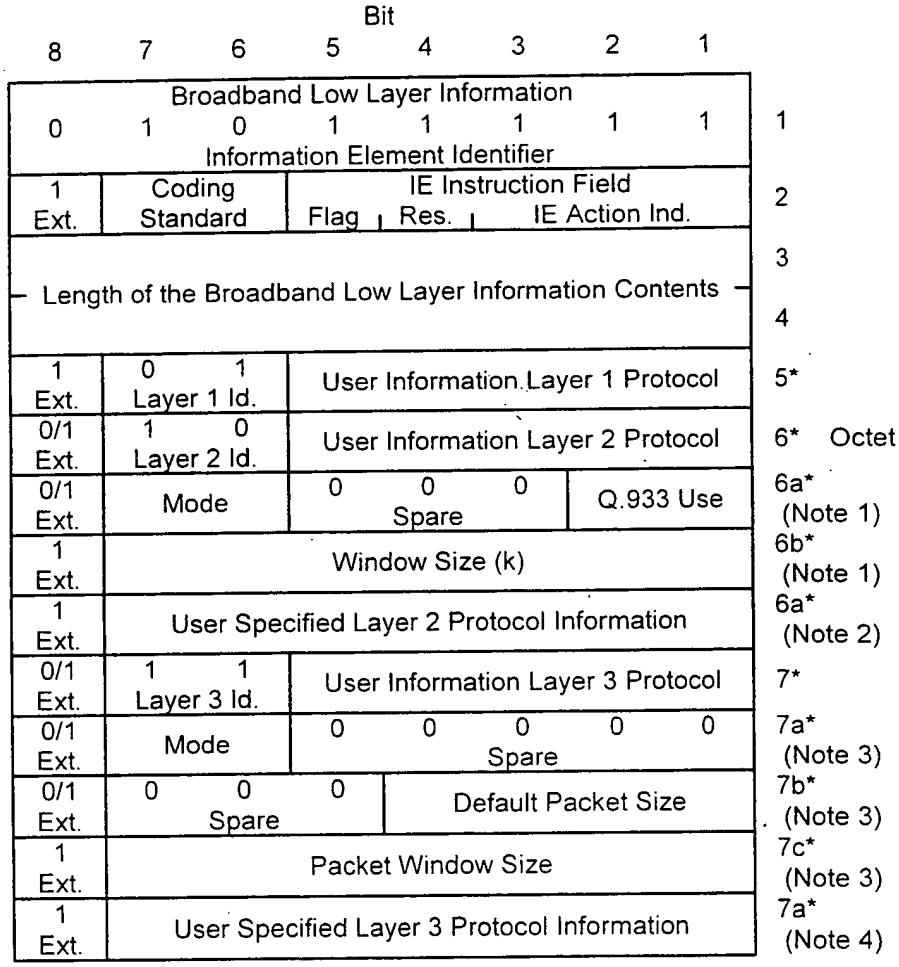
FIG. 114



T1162730-94/d019

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FIG. 115



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FIG. 116

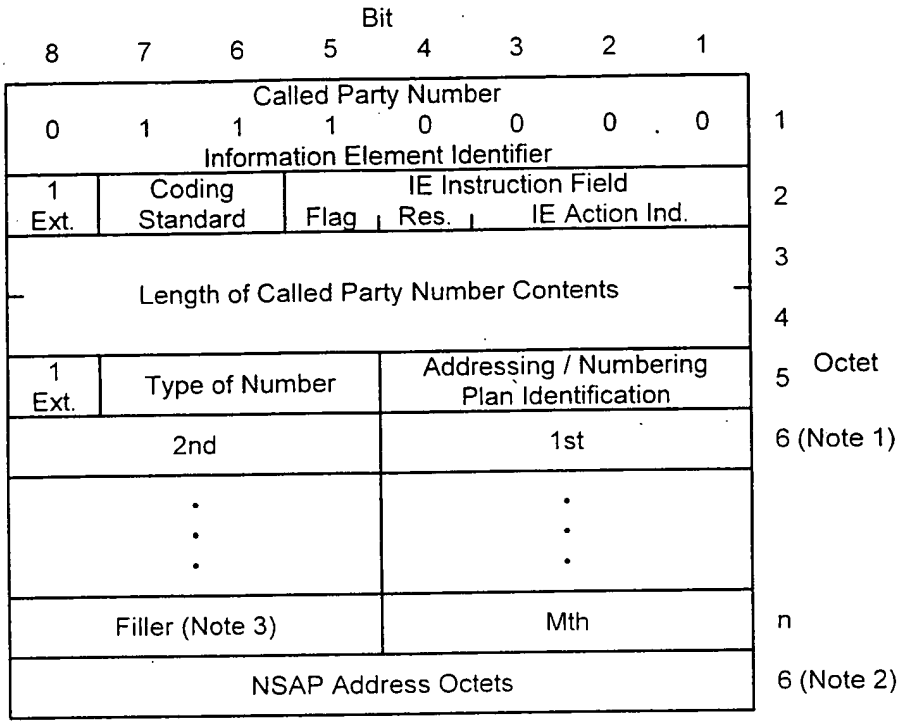
Additional Layer 3 Protocol Information	7.1* (Note 5)
(cont.)	7.2* (Note 5)
(cont.)	7.3* (Note 5)
(cont.)	7.4* (Note 5)
(cont.)	7.5* (Note 5)
(cont.)	7.6* (Note 5)
(cont.)	7.7* (Note 5)
(cont.)	7.8* (Note 5)

T1162750-94/d021

Notes
1 This octet is included only when octet 6 indicates the procedure of acknowledge type HDLC.
2 This octet exists only if octet 6 indicates the user-specific layer 2 protocol.
3 This octet exists only if octet 7 indicates the layer 3 protocol in accordance with the ITU-T Recommendation X.25, ISO/IEC 8208, ITU-T Recommendation X.223, or ISO/IEC 8878.
4 This octet exists only if octet 7 indicates the user-specific layer 3 protocol.
5 These octets exist only if octet 7 indicates ISO/IEC TR9577.

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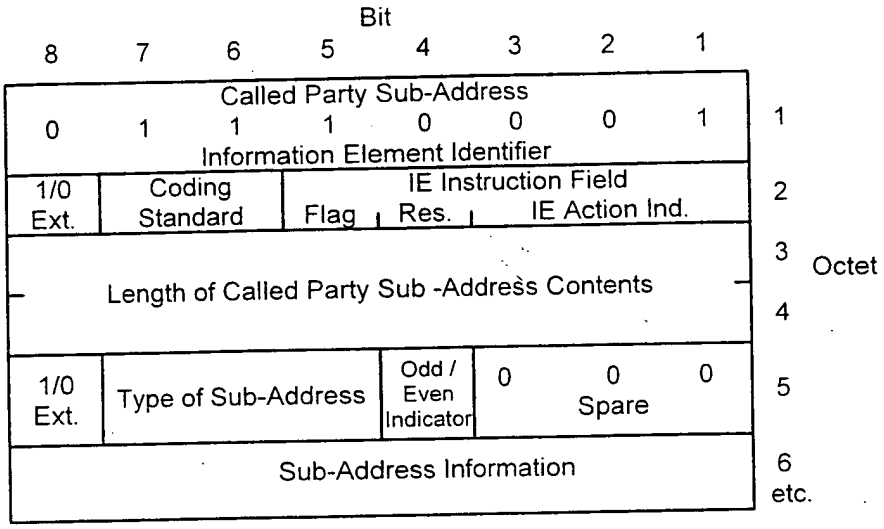
FIG. 117



Notes
1 The number digits appear in the same order as input, beginning from the inferior four bits in octet 6. The digits are coded with BCD.
2 When the use of NASP address is indicated in the address/numbering plan identification, the address shall be coded with the expression of ITU-T Recommendation X.213 or ISO/IEC8348.
3 Filler shall be "1111."

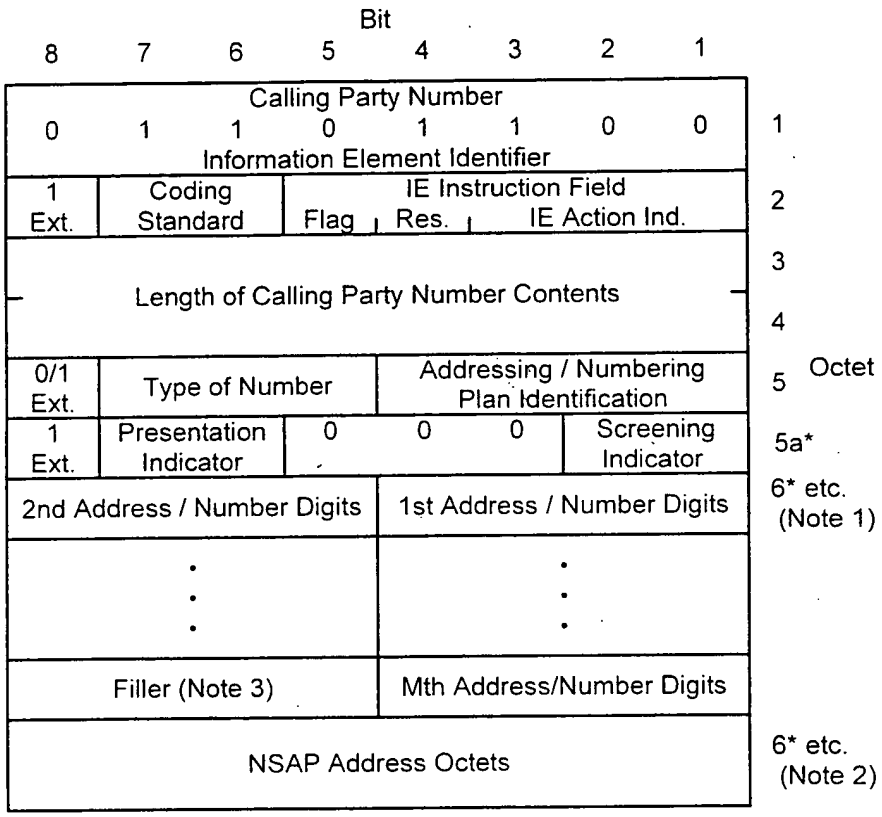
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FIG. 118



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FIG. 119



Notes

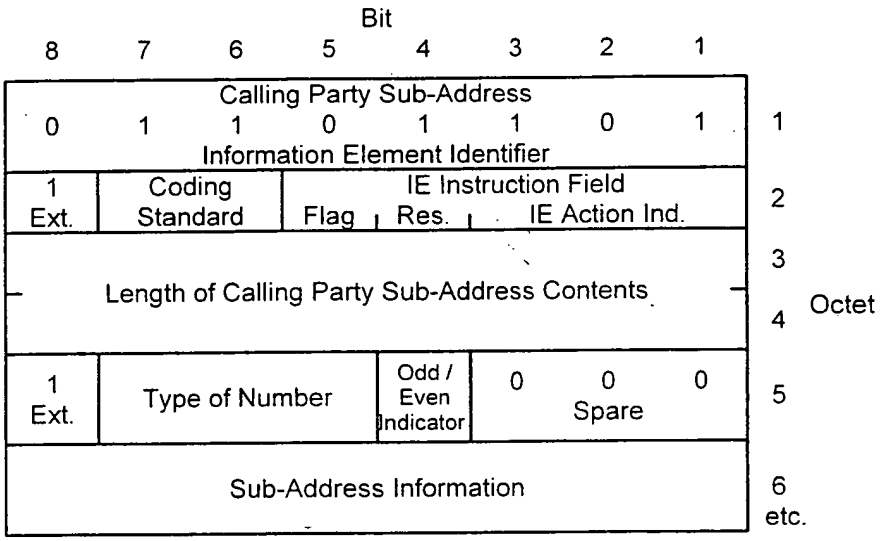
1 The number digits appear in the same order as input, beginning from the inferior four bits in octet 6. The digits are coded with BCD.

2 When the use of NASP address is indicated in the address/numbering plan identification, the address shall be coded with the expression of ITU-T Recommendation X.213 or ISO/IEC8348.

3 Filler shall be "1111."

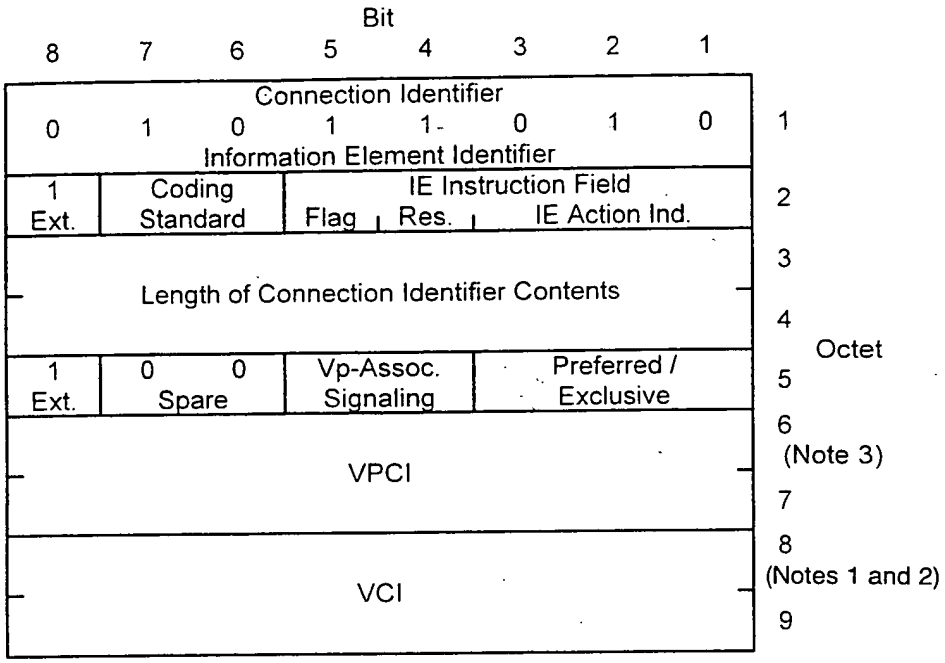
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FIG. 120



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FIG. 121



Notes
1 If the change addition indicator field designates an "arbitrary VCI," the VCI field must be ignored.
2 If the restart class is "001" (see ITU-T Recommendation Q.2931), the VCI field should be ignored.
3 If VP-associated signaling is designated in octet 5, the VPCI field must be ignored.

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FIG. 122

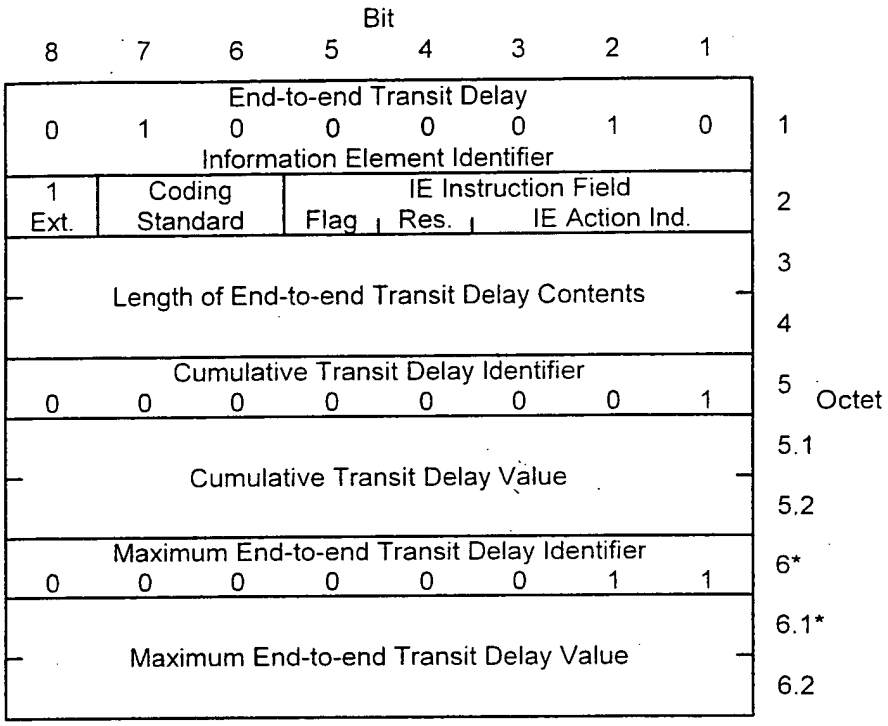
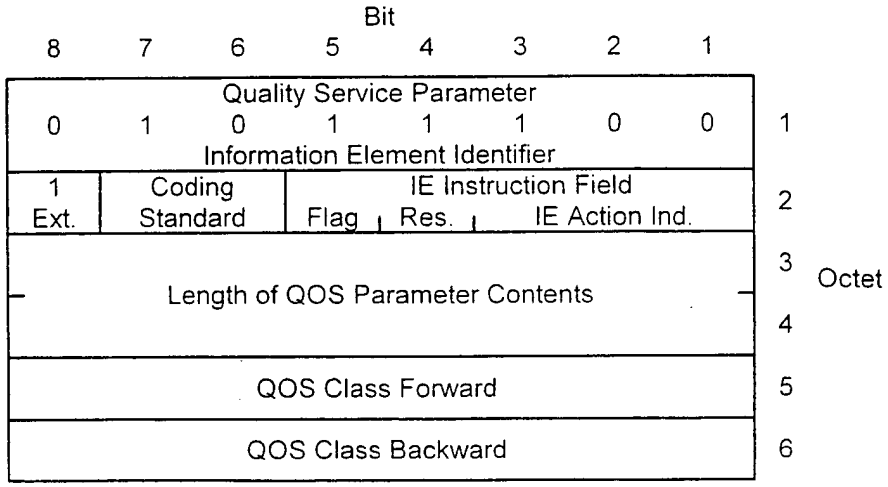


FIG. 123



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FIG. 124

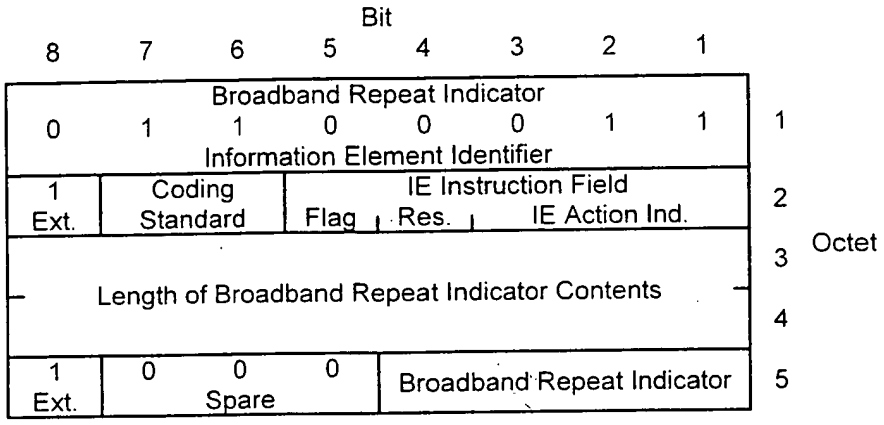
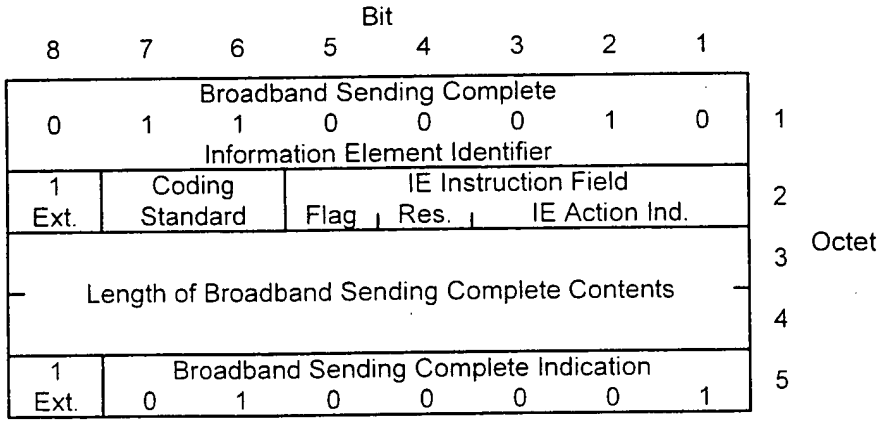


FIG. 125



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FIG. 126

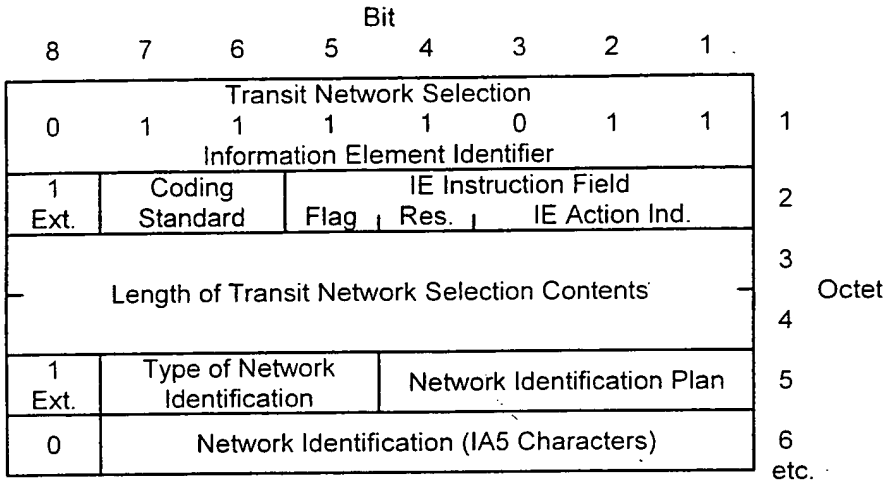
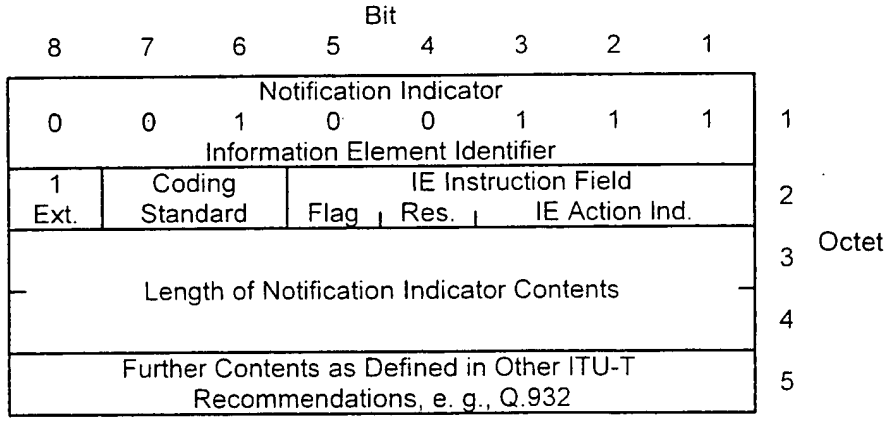


FIG. 127



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FIG. 128

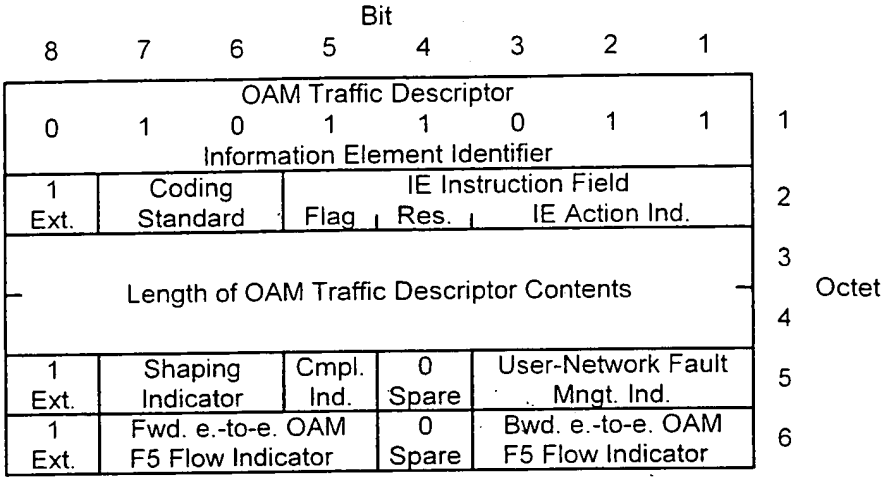
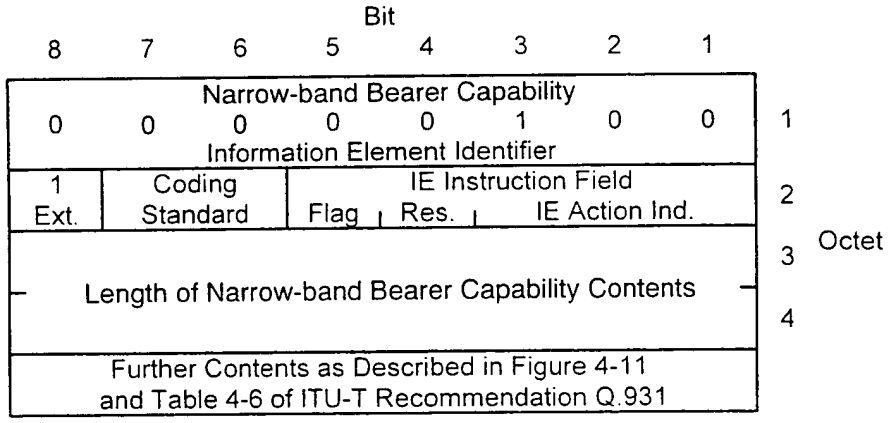


FIG. 129



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FIG. 130

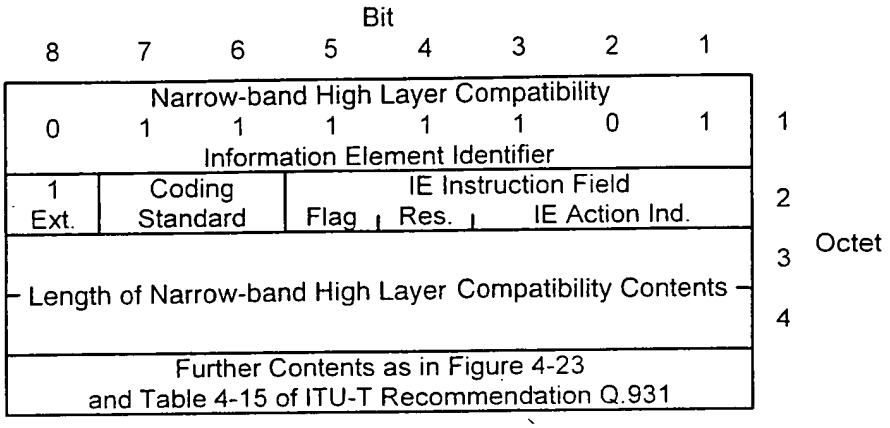
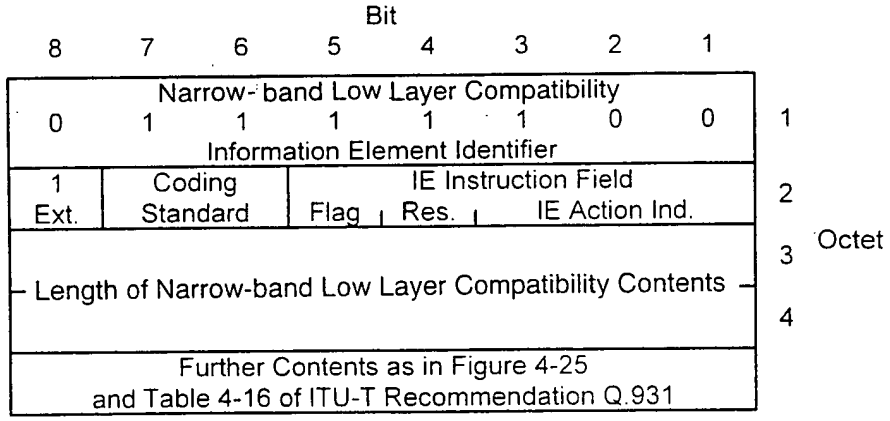


FIG. 131



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FIG. 132

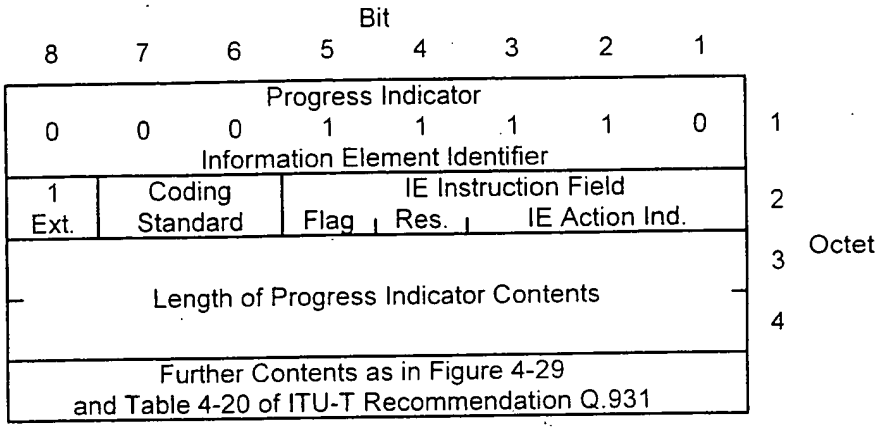
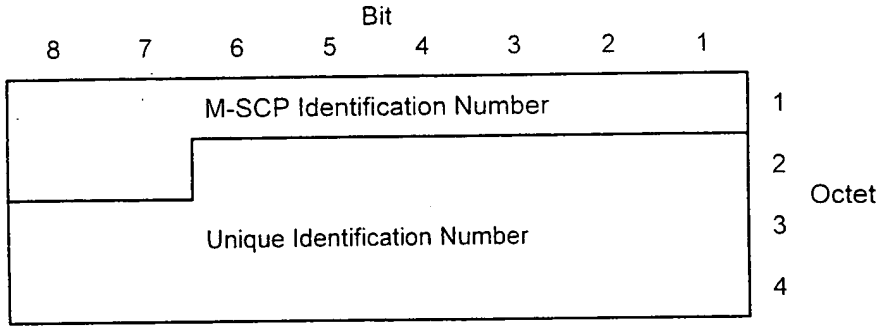


FIG. 133



M-SCP identification number is used to identify the M-SCP which has assigned the TMUI and takes a value between zero and 999.

Unique identification number is used to identify the mobile station in the node which has assigned the TMUI and takes a value between zero and 999999.

Double assignment evasion bits are used for evading double assignment of the same TMUI and takes a value between zero and three.

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FIG. 134

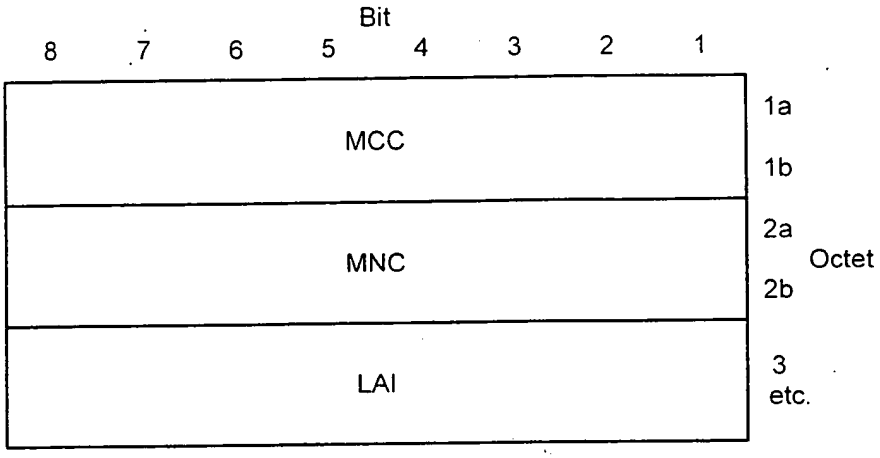


FIG. 135

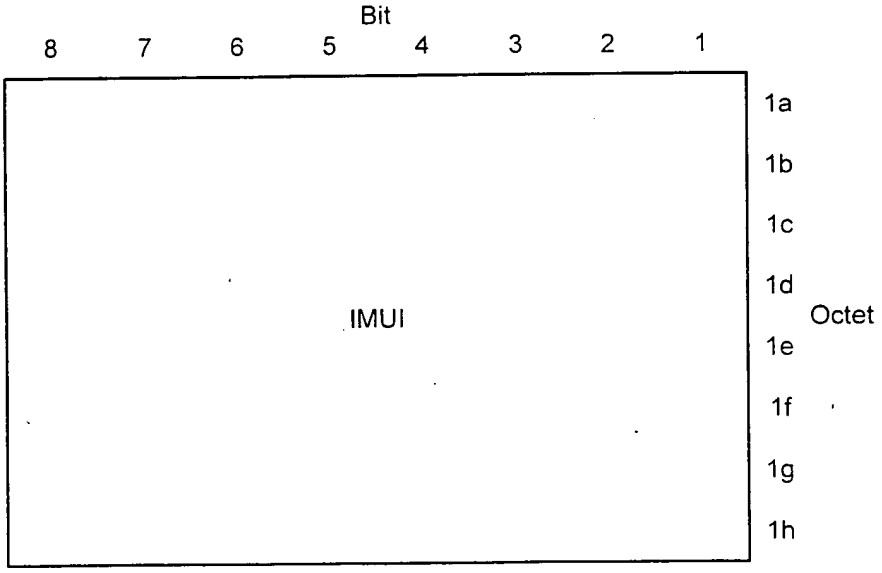
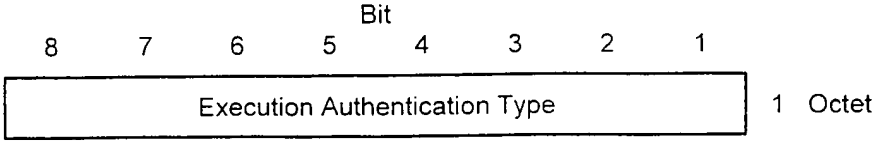


FIG. 136



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FIG. 137

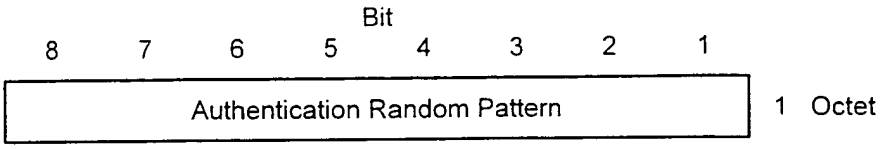


FIG. 138

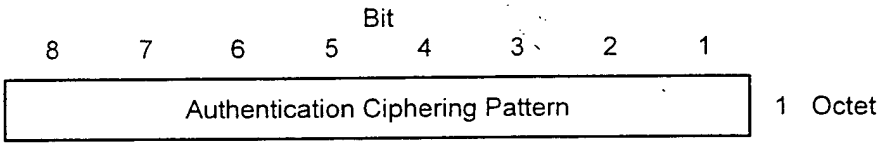


FIG. 139

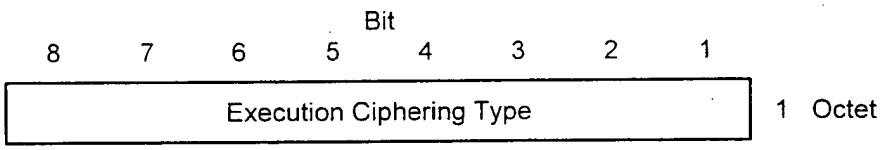
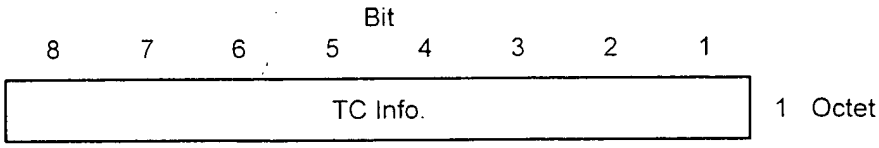
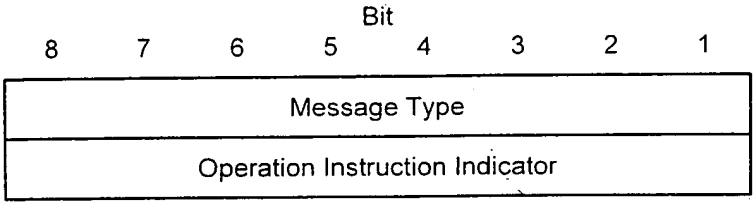


FIG. 140



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FIG. 141



Message Type

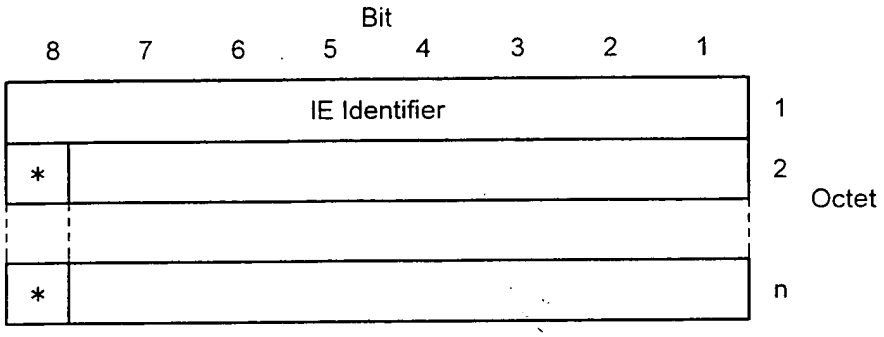
Bit	
8 7 6 5 4 3 2 1	
0 0 0 0 0 0 0 1	RADIO BEARER SETUP
0 0 0 1 0 0 0 1	RADIO BEARER RELEASE
0 0 0 1 0 0 1 0	RADIO BEARER RELEASE COMPLETE
0 0 1 0 0 0 0 1	HANDOVER COMAND
0 0 1 0 0 0 1 0	HANDOVER RESPONSE

Operation Instruction Indicator

Operation Instruction Indicator is not included in the message type identifier

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FIG. 142



IE Identifier

Bit	
8 7 6 5 4 3 2 1	

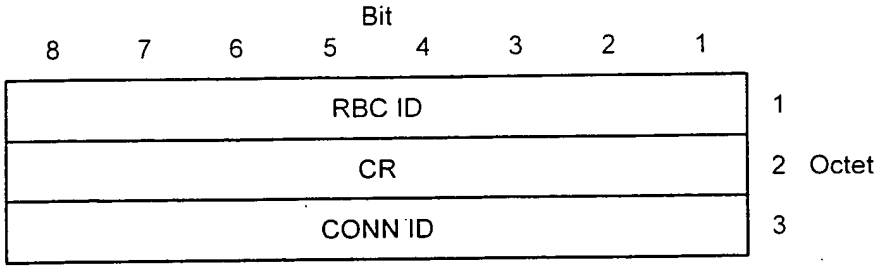
RADIO BEARER SETUP INFORMATION
DHO BRANCH ADDITION
DHO BRANCH DELETION
ACCH REPLACEMENT
BRANCH REPLACEMENT
USER RATE REPLACEMENT
CODE REPLACEMENT
CODE TYPE REPLACEMENT

Extension Flag

Bit	
8	
0	Not Extended
1	Extended

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FIG. 143

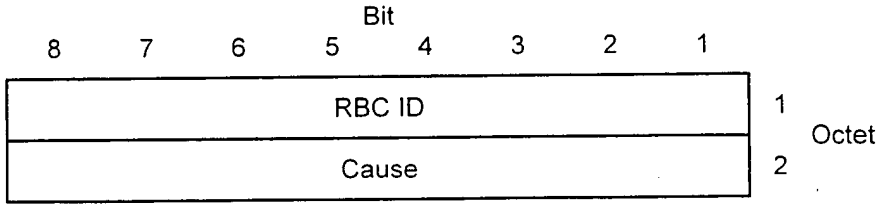


RBC ID (RBC identifier) is a number for identifying the RBC connection which uniquely corresponds to a connection which can be identified by a CR and CONN ID in the CC protocol. It takes a value between 1 and H.

CR (call reference) is a call identifier for the CC protocol (see section 2.5.2.4.3.1).

CONN ID is a connection identifier for the CC protocol (see section 2.5.2.4.3.1).

FIG. 144

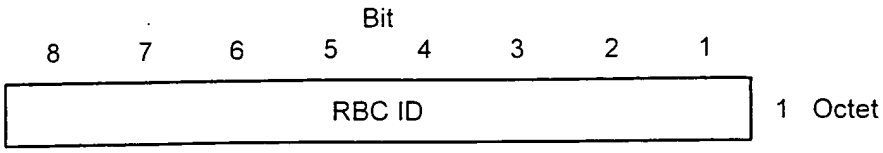


RBC ID (RBC identifier) is a number for identifying the RBC connection which uniquely correspondsto a connection which can be identified by a CR and CONN ID in the CC protocol. It takes a value between 1 and H.

Cause Indicator

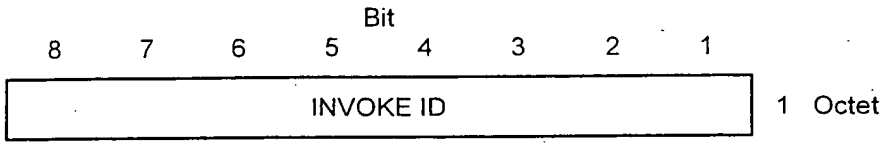
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FIG. 145



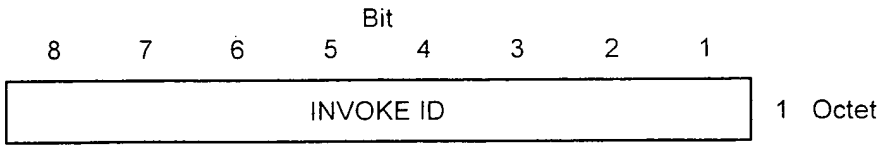
RBC ID (RBC identifier) is a number for identifying the RBC connection which uniquely corresponds to a connection which can be identified by a CR and CONN ID in the CC protocol. It takes a value between 1 and H.

FIG. 146



Invoke ID is an identifying number for associating a response signal with a handover command when the handover command has been initiated.

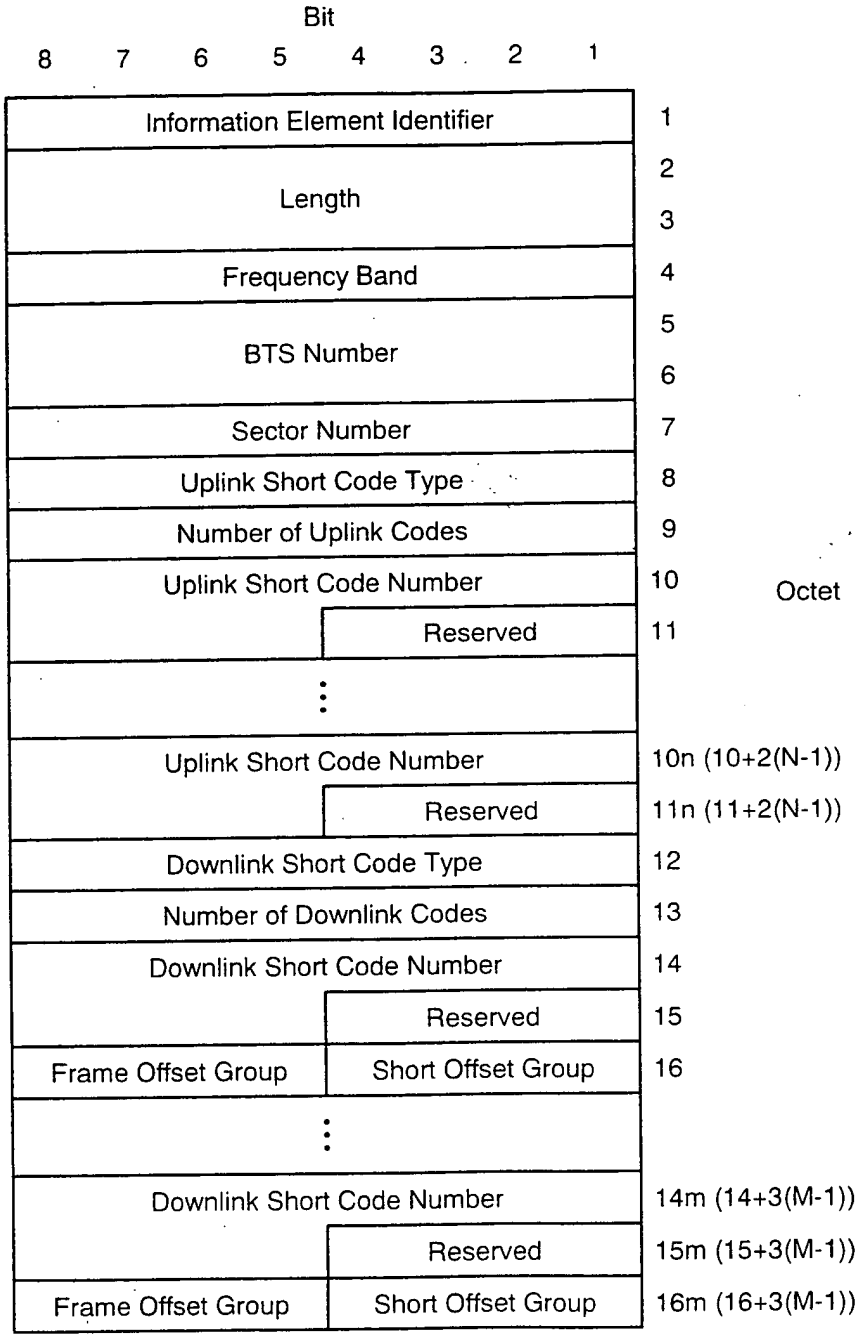
FIG. 147



Invoke ID is an identifying number for associating a response signal with a handover command when the handover command has been initiated.

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FIG. 148



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FIG. 149

"Information element identifier" indicates the radio bearer setup fundamental information element and has a length of 8 bits.

"Length" indicates the length of the information element.

"Frequency band" indicates the frequency band which should be indicated at the first call. 256 frequency bands can be indicated by eight bits in this field, i.e., frequency band f1 is indicated by "00000000" in the "frequency band" and frequency band f256 is indicated by "11111111."

"BTS number" indicates the BTS identifying number in the network which is one or more.

"Sector number" indicates the sector identifying number in the same BTS, i.e., sector 1 is indicated by "00000001" while sector 12 is indicated by "00001100."

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FIG. 150

"Uplink short code type" indicates the information transfer rate for each uplink code.

Bit 8765	Bandwidth	Bit 4321	Code Type
0000	20.0 MHz	0000	1 chip/sym
0001	10.0 MHz	0001	2 chip/sym
0010	5.0 MHz	·	·
0011	1.25 MHz	·	·
Others	Reserved	1001	512 chip/sym
		1010	1024 chip/sym
		1011	2048 chip/sym
		Others	Reserved

"Number of uplink codes" indicates the number of uplink short codes between one and N when a plurality of uplink short codes are availed for a single connection.

"Uplink short code number" indicates the identifying number of uplink short code between zero and 2047.

"Downlink short code type" indicates the information transfer rate for each downlink code.

Bit 8765	Bandwidth	Bit 4321	Code Type
0000	20.0 MHz	0000	1 chip/sym
0001	10.0 MHz	0001	2 chip/sym
0010	5.0 MHz	·	·
0011	1.25 MHz	·	·
Others	Reserved	1001	512 chip/sym
		1010	1024 chip/sym
		1011	2048 chip/sym
		Others	Reserved

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FIG. 151

"Number of downlink codes" indicates the number of downlink short codes between one and M when a plurality of downlink short codes are availed for a single connection.

"Downlink short code number" indicates the identifying number of downlink short code between zero and 2047.

"Frame offset group" indicates which time slot in a single radio frame should be the front end of the logical frame when the mobile station communicates. This is formulated to uniformize traffic in a single frame time unit within the wired path. It takes a value of 0-15.

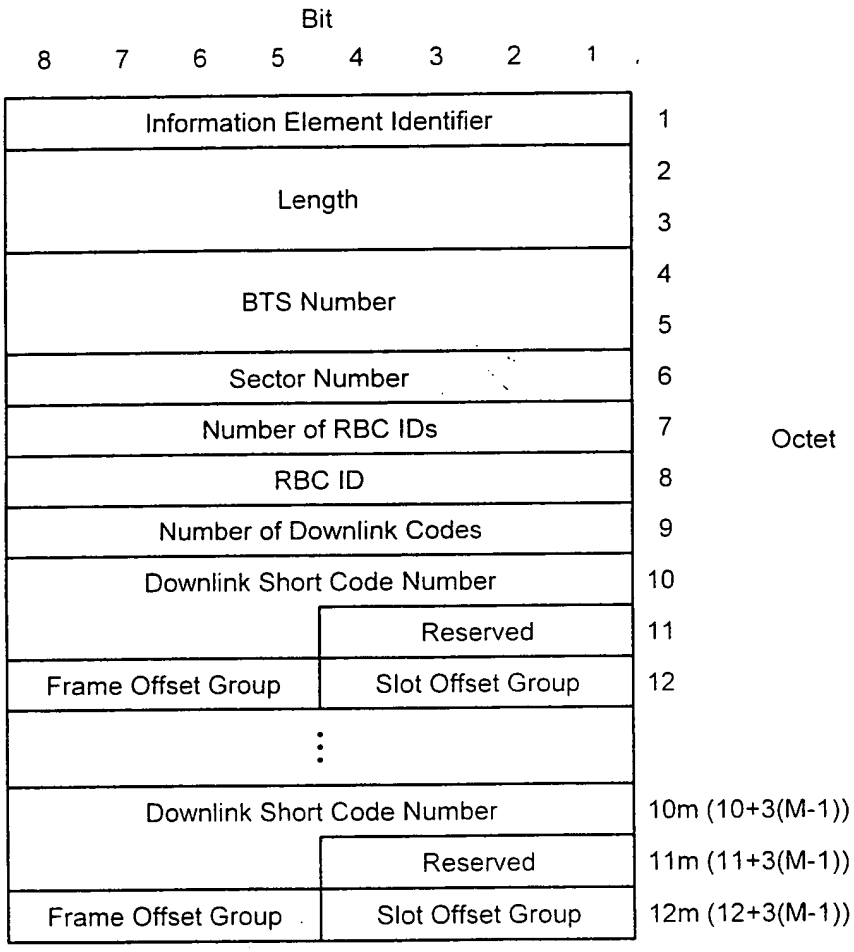
Bit 8765	
0000	0
.	.
.	.
.	.
1111	15

"Slot offset group" indicates an offset value of downlink transmission timing for a short code. The downlink transmission timing may be offset by, at most, three subslots within a single slot in order to reduce redundancy of pilot symbols. The indication by the "slot offset group" field at the first call should be contained until the release of all calls of the mobile station. It takes a value of 0-3.

Bit 4321	
0000	0
0001	1
0010	2
0011	3

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FIG. 152



"Information element identifier" indicates the DHO branch addition information element and has a length of 8 bits.

"Length" indicates the length of the information element.

"BTS number" indicates the BTS identifying number in the network which is one or more.

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FIG. 153

"Sector number" indicates the sector identifying number in the same BTS. The number is of 1-12, i.e., sector 1 is indicated by "00000001" while sector 12 is indicated by "00001100."

Bit Pattern 87654321	
00000001	1
.	.
.	.
.	.
00001100	12

"Number of RBC IDs" indicates the number of connections established simultaneously. It takes a value between 1 and H.

"RBC ID" is a number for identifying the RBC connection which uniquely corresponds to a connection which can be identified by a CR and CONN ID in the CC protocol. It takes a value between 1 and H.

"Number of downlink codes" indicates the number of downlink short codes between one and M when a plurality of downlink short codes are availed for a single connection.

"Downlink short code number" indicates the identifying number of downlink short code between zero and 2047.

"Frame offset group" indicates which time slot in a single radio frame should be the front end of the logical frame when the mobile station communicates. This is formulated to uniformize traffic in a single frame time unit within the wired path. It takes a value of 0-15.

Bit Pattern 8765	
0000	0
.	.
.	.
.	.
1111	15

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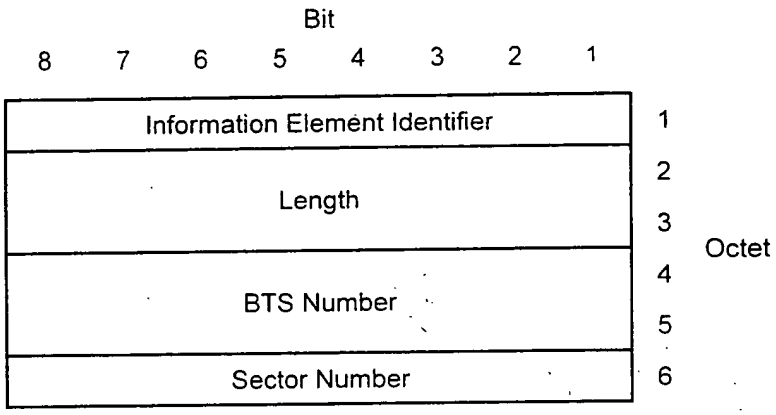
FIG. 154

"Slot offset group" indicates an offset value of downlink transmission timing for a short code. The downlink transmission timing may be offset by, at most, three subslots within a single slot in order to reduce redundancy of pilot symbols. The indication by the "slot offset group" field at the first call should be contained until the release of all calls of the mobile station. It takes a value of 0-3.

Bit Pattern 4321	
0000	0
0001	1
0010	2
0011	3

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FIG. 155



"Information element identifier" indicates the DHO branch deletion information element and has a length of 8 bits.

"Length" indicates the length of the information element.

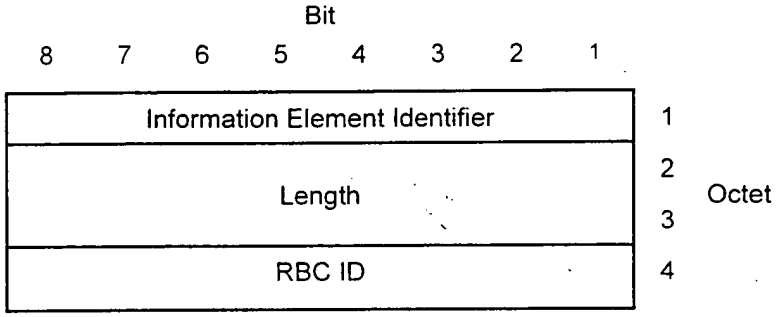
"BTS number" indicates the BTS identifying number in the network which is one or more.

"Sector number" indicates the sector identifying number in the same BTS. The number is of 1-12, i.e., sector 1 is indicated by "00000001" while sector 12 is indicated by "00001100."

Bit Pattern 87654321	
00000001	0
.	.
.	.
.	.
00001100	12

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FIG. 156



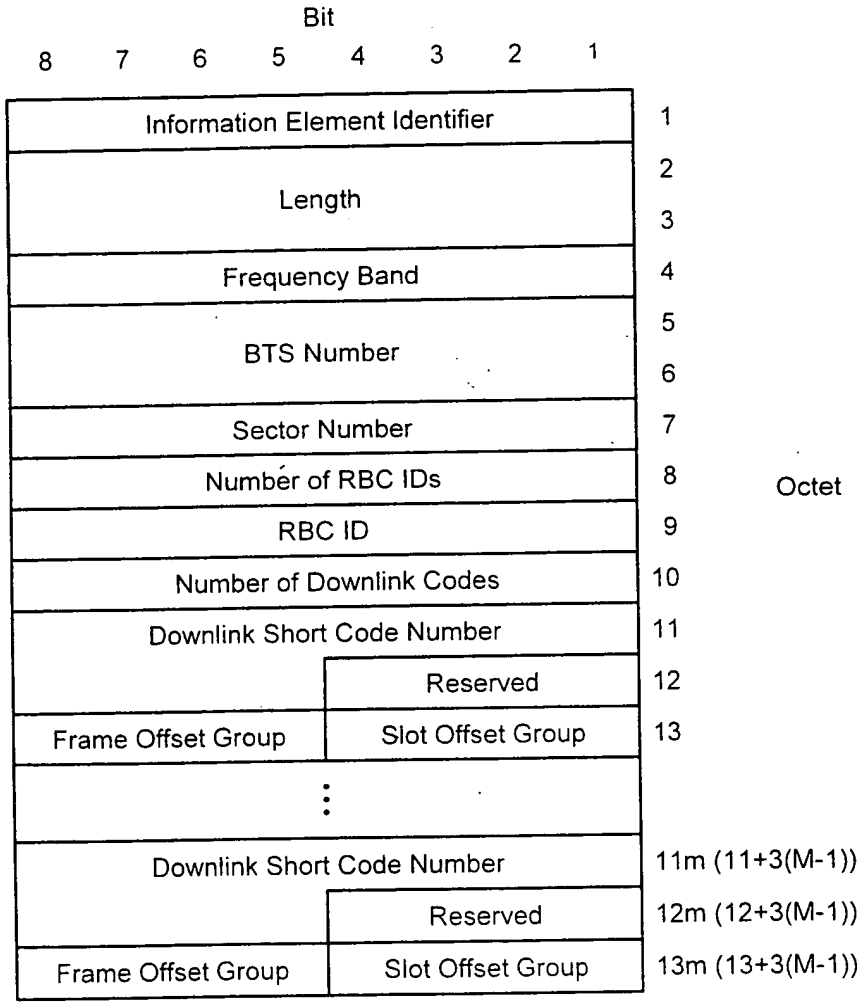
"Information element identifier" indicates the ACCH replacement information element and has a length of 8 bits.

"Length" indicates the length of the information element.

"RBC ID" is a number for identifying the RBC connection to which the ACCH is handed. It takes a value between 1 and H.

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FIG. 157



"Information element identifier" indicates the branch replacement information element and has a length of 8 bits.

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FIG. 158

"Length" indicates the length of the information element.

"Frequency band" indicates the frequency band, which is in the range between f1 and f256, established at the first call. 256 frequency bands can be indicated by eight bits in this field, i.e., frequency band f1 is indicated by "00000000" in the "frequency band" and frequency band f256 is indicated by "11111111."

Bit Pattern 87654321	
00000000	f1
.	.
.	.
.	.
11111111	f256

"BTS number" indicates the BTS identifying number in the network which is one or more.

"Sector number" indicates the sector identifying number in the same BTS. The number is of 1-12, i.e., sector 1 is indicated by "00000001" while sector 12 is indicated by "00001100."

Bit Pattern 87654321	
00000001	0
.	.
.	.
.	.
00001100	12

"Number of RBC IDs" indicates the number of connections established simultaneously. It takes a value between 1 and H.

"RBC ID" is a number for identifying the RBC connection which uniquely corresponds to a connection which can be identified by a CR and CONN ID in the CC protocol. It takes a value between 1 and H.

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FIG. 159

"Number of downlink codes" indicates the number of downlink short codes between one and M when a plurality of downlink short codes are availed for a single connection.

"Downlink short code number" indicates the identifying number of downlink short code between zero and 2047.

"Frame offset group" indicates which time slot in a single radio frame should be the front end of the logical frame when the mobile station communicates. This is formulated to uniformize traffic in a single frame time unit within the wired path. It takes a value of 0-15.

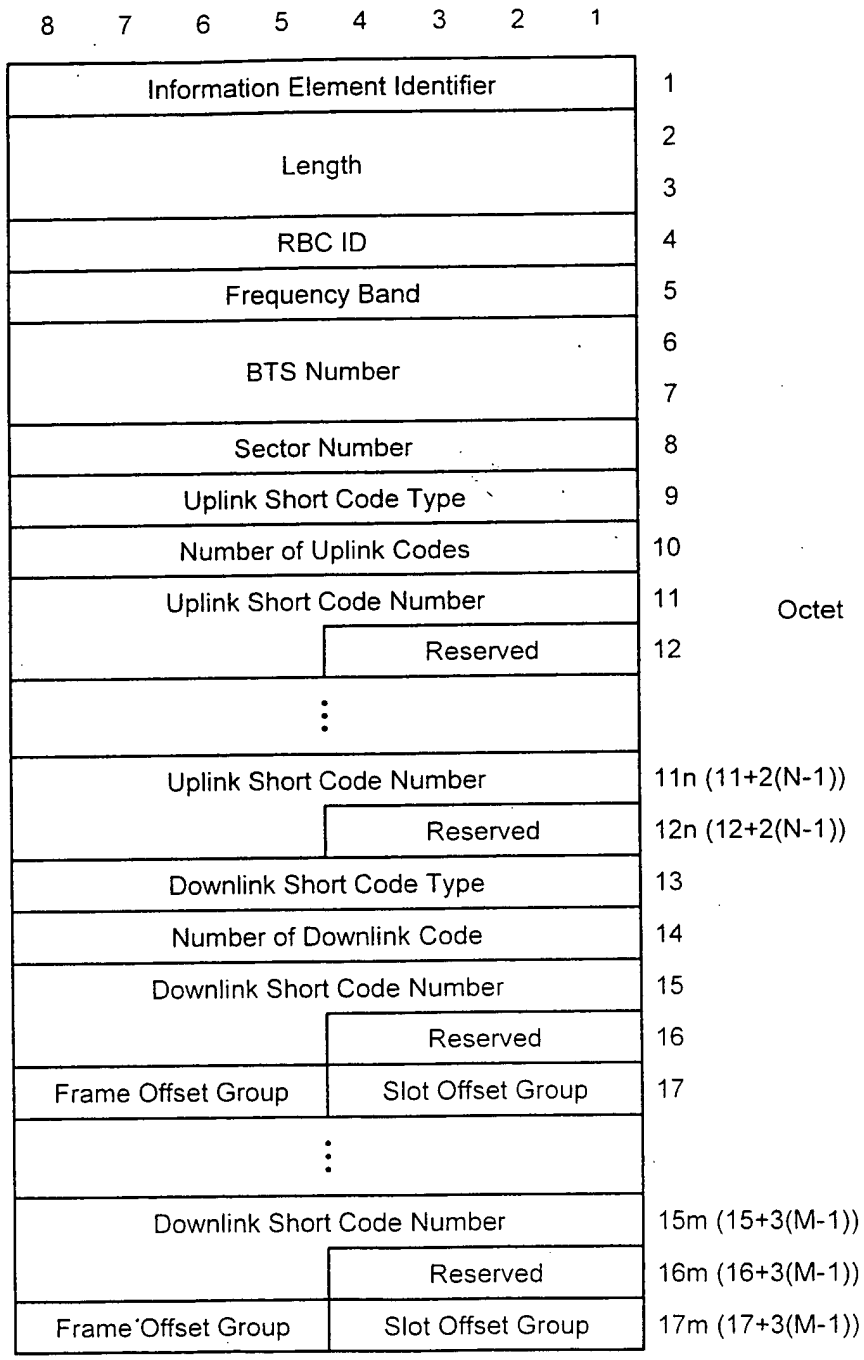
Bit Pattern 8765	
0000	0
.	.
.	.
.	.
1111	15

"Slot offset group" indicates an offset value of downlink transmission timing for a short code. The downlink transmission timing may be offset by, at most, three subslots within a single slot in order to reduce redundancy of pilot symbols. The indication by the "slot offset group" field at the first call should be contained until the release of all calls of the mobile station. It takes a value of 0-3.

Bit Pattern 4321	
0000	0
0001	1
0010	2
0011	3

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FIG. 160



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FIG. 161

"Information element identifier" indicates the user rate replacement information element and has a length of 8 bits.

"Length" indicates the length of the information element.

"RBC ID" is a number for identifying the RBC connection to which the ACCH is handed. It takes a value between 1 and H.

"Frequency band" indicates the frequency band, which is in the range between f1 and f256, established at the first call. 256 frequency bands can be indicated by eight bits in this field, i.e., frequency band f1 is indicated by "00000000" in the "frequency band" and frequency band f256 is indicated by "11111111."

Bit Pattern 87654321	
00000000	f1
.	.
.	.
.	.
11111111	f256

"BTS number" indicates the BTS identifying number in the network which is one or more.

"Sector number" indicates the sector identifying number in the same BTS. The number is of 1-12, i.e., sector 1 is indicated by "00000001" while sector 12 is indicated by "00001100."

Bit Pattern 87654321	
00000001	1
.	.
.	.
.	.
00001100	12

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FIG. 162

"Uplink short code type" indicates the information transfer rate for each uplink code.

Bit 8765	Bandwidth	Bit 4321	Code Type
0000	20.0 MHz	0000	1 chip/sym
0001	10.0 MHz	0001	2 chip/sym
0010	5.0 MHz	·	·
0011	1.25 MHz	·	·
Others	Reserved	1001	512 chip/sym
		1010	1024 chip/sym
		1011	2048 chip/sym
		Others	Reserved

"Number of uplink codes" indicates the number of uplink short codes between one and N when a plurality of uplink short codes are availed for a single connection.

"Uplink short code number" indicates the identifying number of uplink short code between zero and 2047.

"Downlink short code type" indicates the information transfer rate for each downlink code.

Bit 8765	Bandwidth	Bit 4321	Code Type
0000	20.0 MHz	0000	1 chip/sym
0001	10.0 MHz	0001	2 chip/sym
0010	5.0 MHz	·	·
0011	1.25 MHz	·	·
Others	Reserved	1001	512 chip/sym
		1010	1024 chip/sym
		1011	2048 chip/sym
		Others	Reserved

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FIG. 163

"Number of downlink codes" indicates the number of downlink short codes between one and M when a plurality of downlink short codes are availed for a single connection.

"Downlink short code number" indicates the identifying number of downlink short code between zero and 2047.

"Frame offset group" indicates which time slot in a single radio frame should be the front end of the logical frame when the mobile station communicates. This is formulated to uniformize traffic in a single frame time unit within the wired path. It takes a value of 0-15.

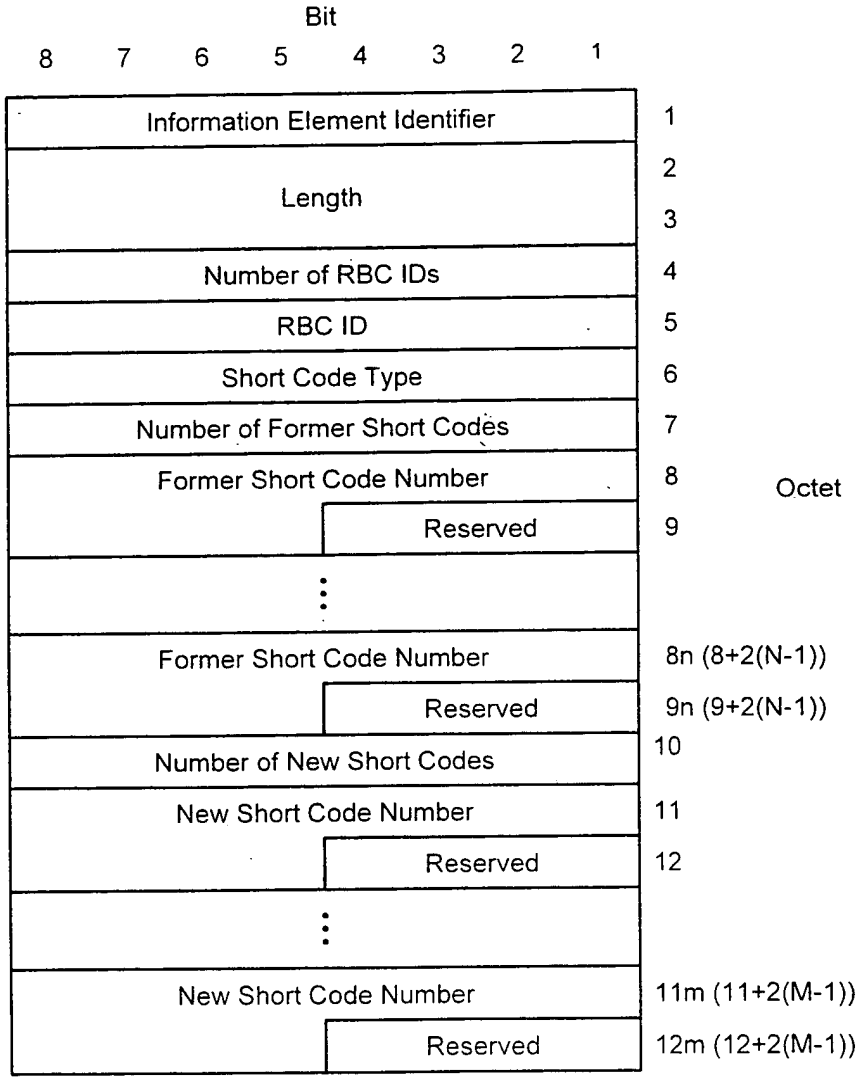
Bit Pattern 8765	
0000	0
•	•
•	•
•	•
1111	15

"Slot offset group" indicates an offset value of downlink transmission timing for a short code. The downlink transmission timing may be offset by, at most, three subslots within a single slot in order to reduce redundancy of pilot symbols. The indication by the "slot offset group" field at the first call should be contained until the release of all calls of the mobile station. It takes a value of 0-3.

Bit Pattern 4321	
0000	0
0001	1
0010	2
0011	3

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FIG.164



"Information element identifier" indicates the user rate replacement information element and has a length of 8 bits.

"Length" indicates the length of the information element.

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FIG. 165

"Number of RBC IDs" indicates the number of connections established simultaneously. It takes a value between 1 and H.

"RBC ID" is a number for identifying the RBC connection to which the ACCH is handed. It takes a value between 1 and H.

"Short code type" indicates the information transfer rate for each code.

Bit 8765	Bandwidth	Bit 4321	Code Type
0000	20.0 MHz	0000	1 chip/sym
0001	10.0 MHz	0001	2 chip/sym
0010	5.0 MHz	•	•
0011	1.25 MHz	•	•
Others	Reserved	1001	512 chip/sym
		1010	1024 chip/sym
		1011	2048 chip/sym
		Others	Reserved

"Number of former short codes" indicates the number of former short codes, which will be replaced, between one and N.

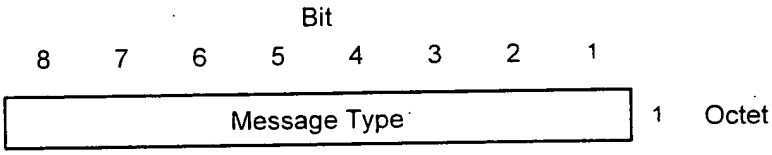
"Former short code number" indicates the identifying number of former short code, which will be replaced, between zero and 2047.

"Number of new short codes" indicates the number of new short codes between one and M.

"New short code number" indicates the identifying number of new short code between zero and 2047.

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FIG. 166

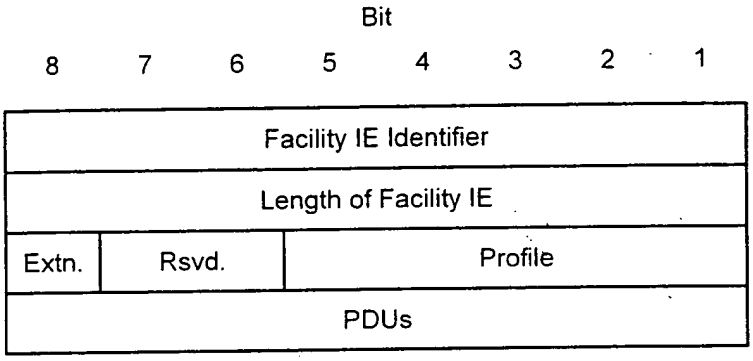


Message Type

Bit Pattern
87654321
******** Radio resource facility

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FIG. 167



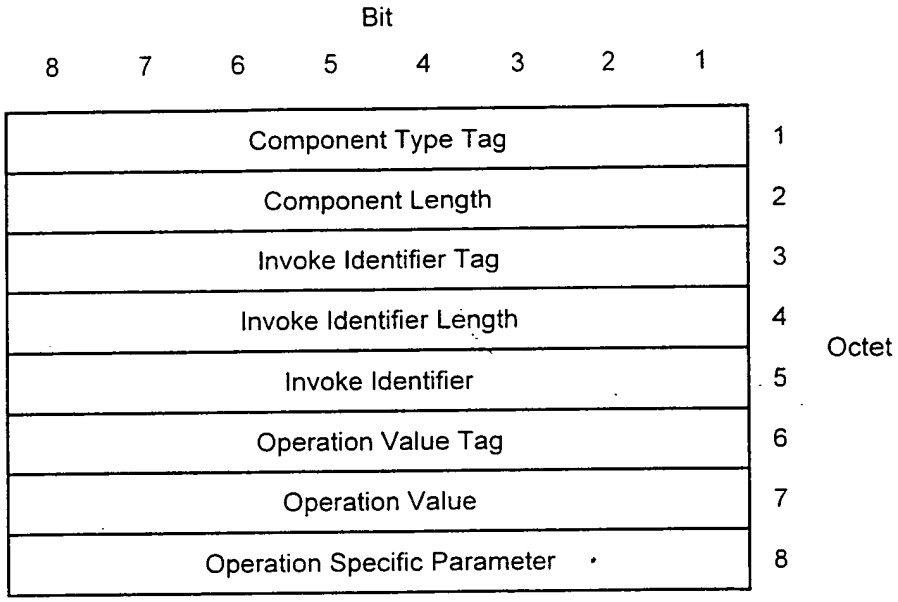
"Profile" indicates the type of PDU (protocol data unit) which is contained in octet 4 and later octets

Bit Pattern
54321
10001 ROSE protocol data unit
10010 CMIP protocol data unit
10011 ACSE protocol data unit
In the invented system, ROSE protocol is used.

"PDUs" field includes one or more PDUs which are ASEs (application service elements) identified by the "profile" field.

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FIG. 168



"Component type tag" is mandatory for each of all components and indicates the type of component as in the following.

Bit Pattern 87654321	
10100001	Invoke
10100010	Result return (termination)
10100011	Error return
10100100	Rejection
10100101	(Reserved)
10100110	(Reserved)
10100111	Result return (proceeding)

"Component length" indicates the length of component excluding the lengths of component type tag field and component length field.

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FIG. 169

"Invoke identifier tag" is used as a reference number for identifying the operation invoke, thereby associating a request with a response.

Bit Pattern 87654321	
00000010	Invoke Identifier Tag
00000101	Null

"Invoke identifier length" indicates the length of the "invoke identifier" field.

"Invoke identifier" indicates the invoke identifier.

"Operation value tag" is included in the invoke component, and so on for indicating the type of operation.

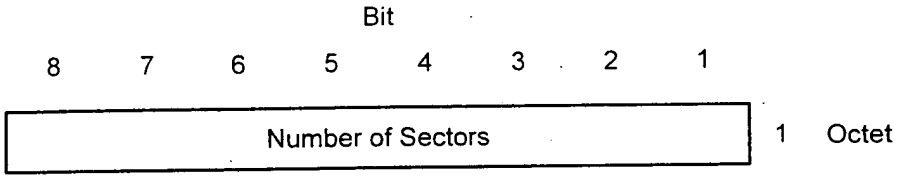
Bit Pattern 87654321	
00000010	Local Operation Code Tag
00000101	Global Operation Code Tag

"Operation value" indicates the type of information for defining the operation.

Bit Pattern 87654321	
********	Candidate zone information for call attempt or acceptance
	n-use zone information
	Added zone information for DHO
	Deleted zone information for DHO
	HHO zone information
	Outer loop information
	Quality deterioration notification information

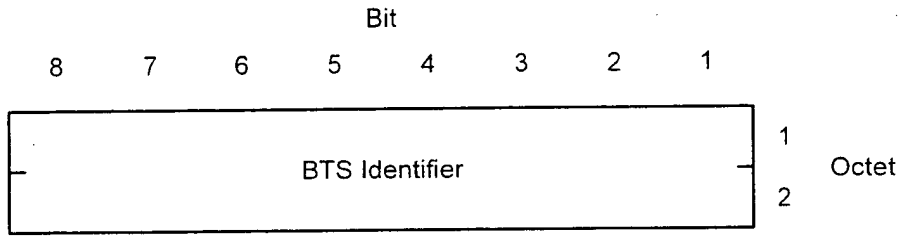
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FIG. 170



"Number of sectors" field contains a binary code representing a value between 1 and N.

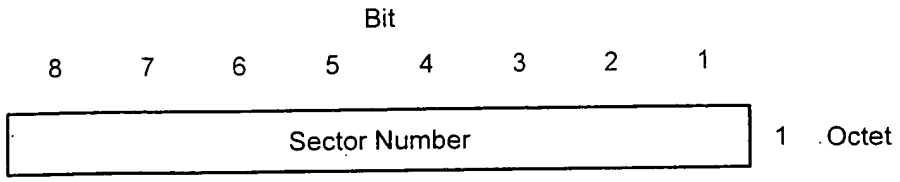
FIG. 171



"BTS identifier" is a number more than one for identifying the corresponding BTS in the network.

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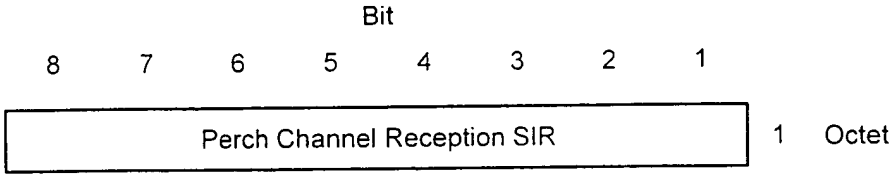
FIG. 172



"Sector number" is a value of 1-12 for identifying the corresponding sector in the BTS.

Bit Pattern 87654321	
00000001	1
.	.
.	.
.	.
00001100	12

FIG. 173



"Perch channel reception SIR" indicates the perch channel reception SIR of the visited sector, circumferential sector, or in-use sector measured at the mobile station.

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FIG. 174

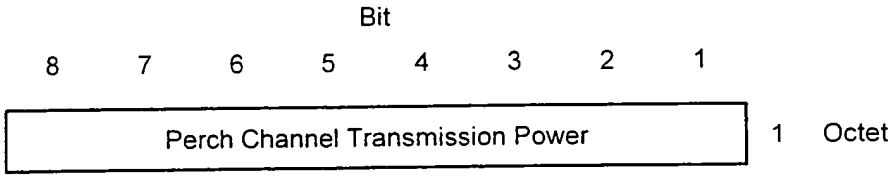
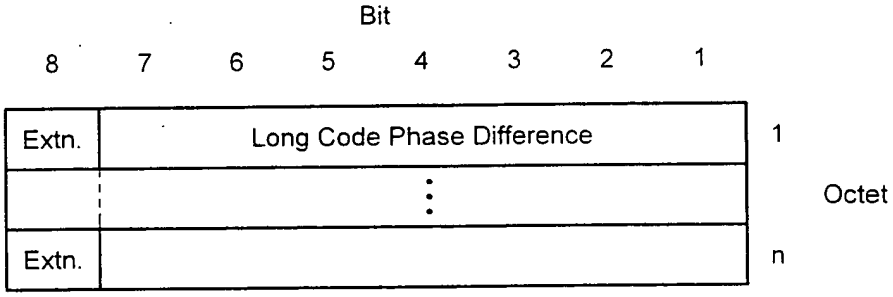


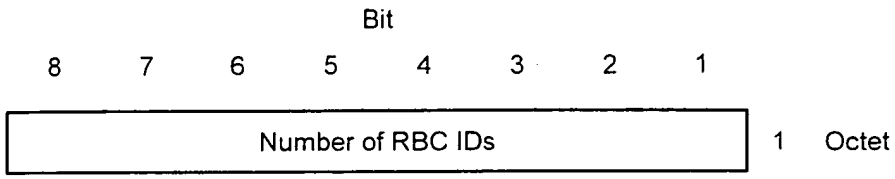
FIG. 175



"Long code phase difference" indicates the difference between the long code phase of the visited or in-use sector and that of a circumferential sector (to which the connection may be handed over). This is used when the execution of DHO and the zone selection at call attempt or acceptance. If the difference is in excess of 128 chips, the field of long code phase difference should be extended by setting the extension bit to 1.

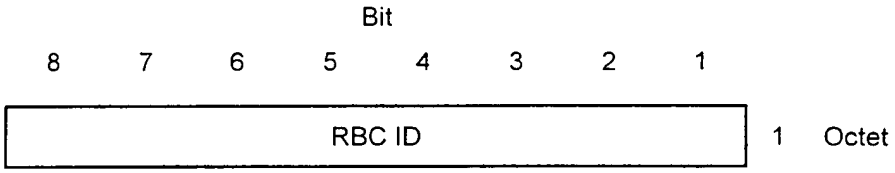
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FIG. 176



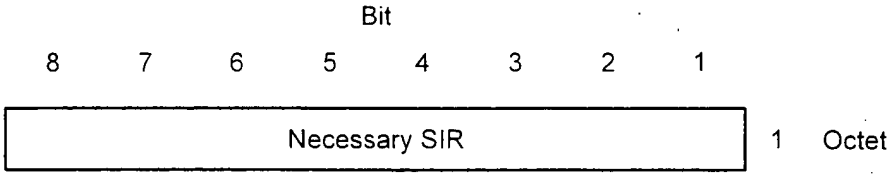
"Number of RBC IDs" field contains a binary code representing a value between 1 and N.

FIG. 177



"RBC ID" is a number for identifying the RBC connection which uniquely corresponds to a connection which can be identified by a CR and CONN ID in the CC protocol. It takes a value between 1 and H.

FIG. 178



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FIG. 179

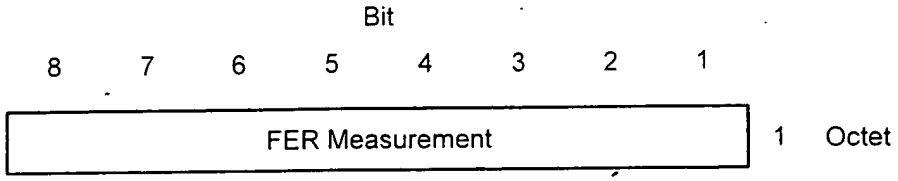


FIG. 180

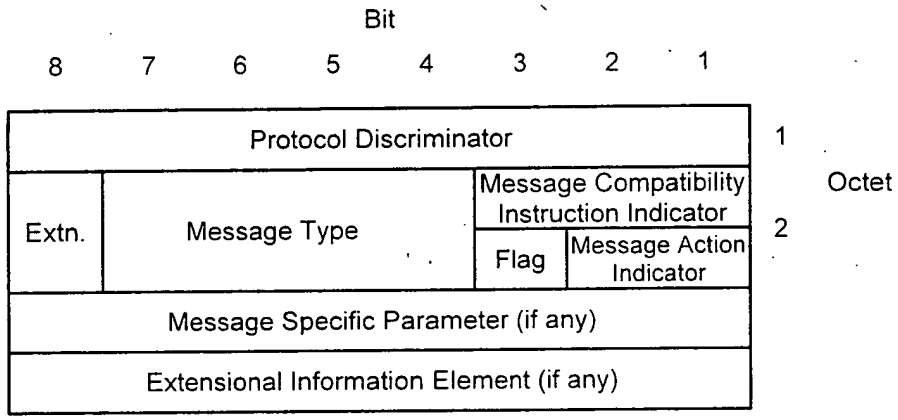
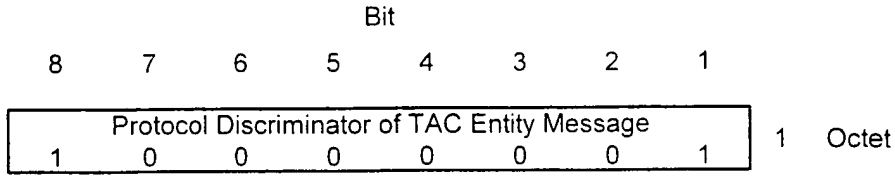


FIG. 181



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FIG. 182

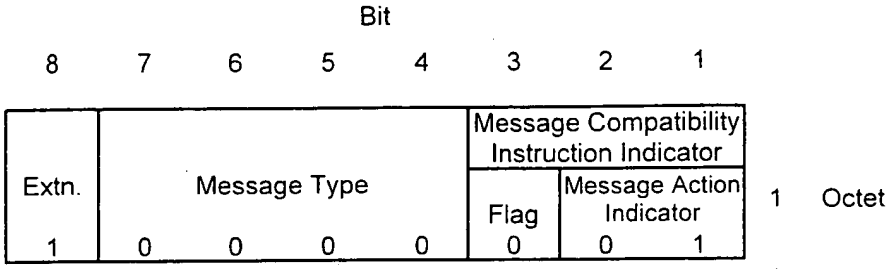


FIG. 183

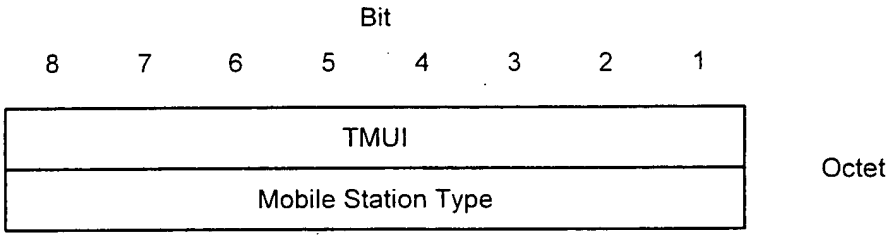
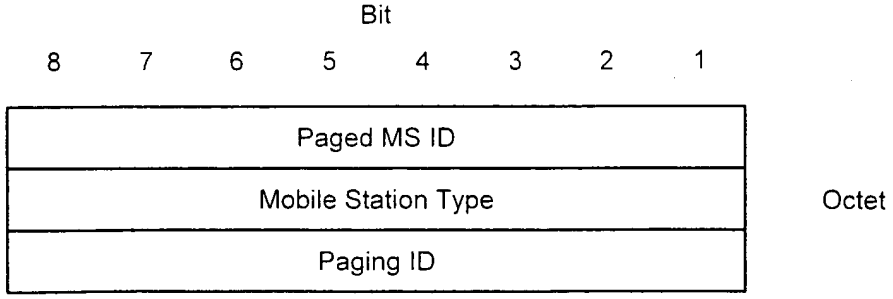


FIG. 184



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FIG. 185

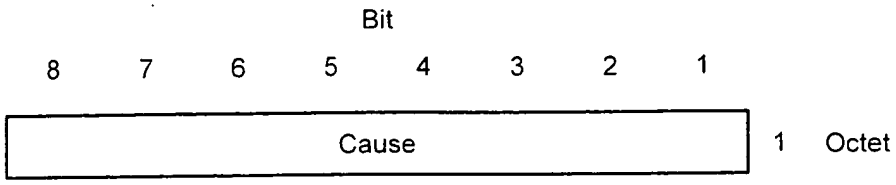


FIG. 186

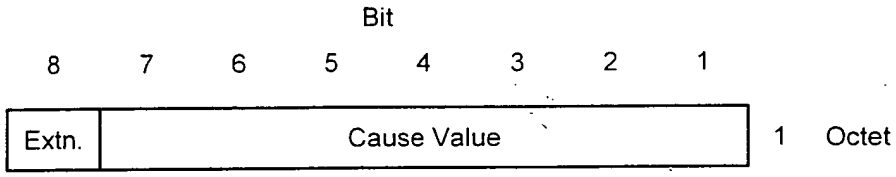


FIG. 187

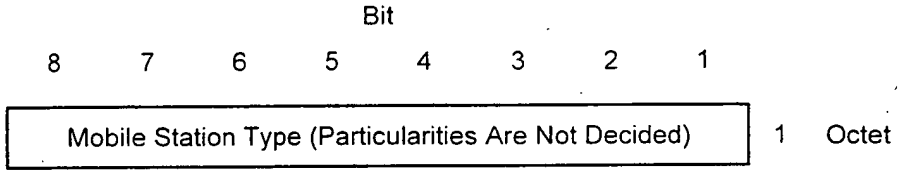
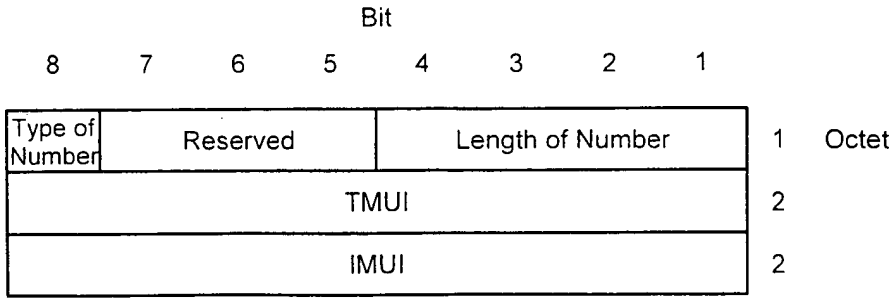


FIG. 188



PRINT OF DRAWINGS
AS ORIGINALLY FILED

FIG. 189

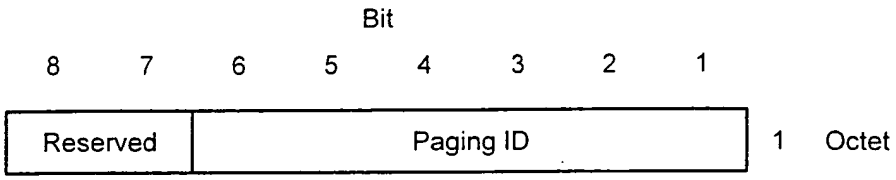


FIG. 190

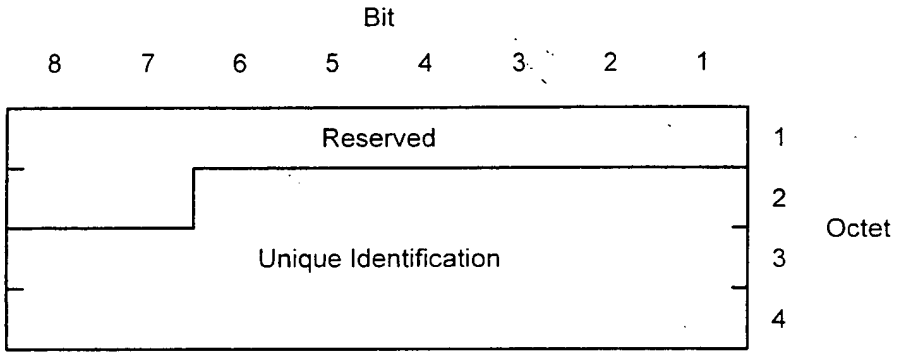
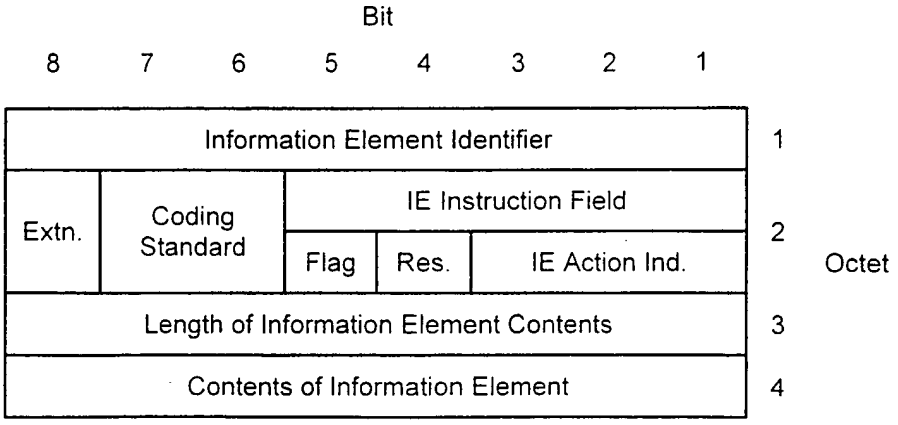


FIG. 191



PRINT OF DRAWINGS
AS ORIGINALLY FILED

FIG. 192

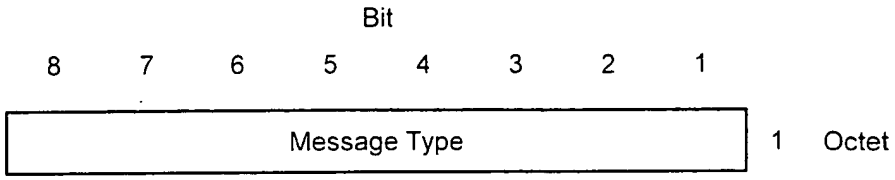


FIG. 193

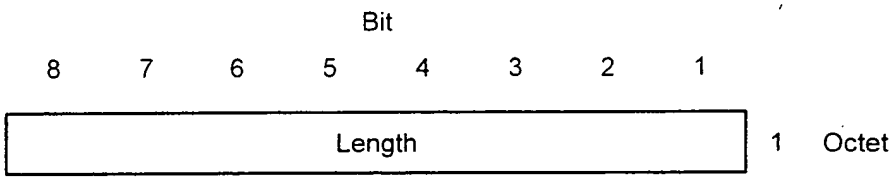


FIG. 194

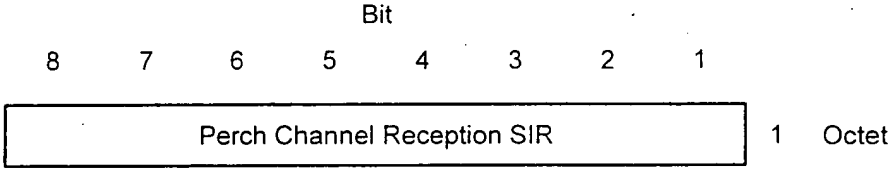


FIG. 195

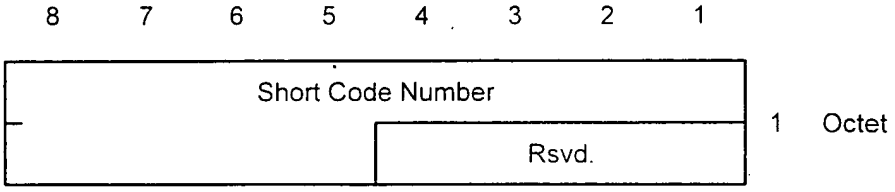
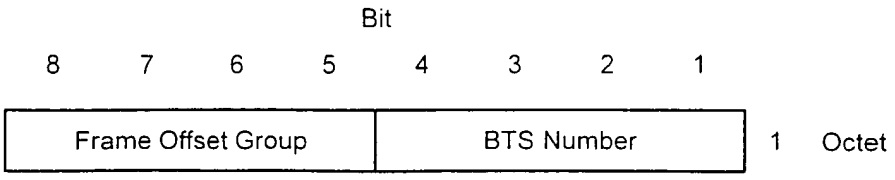


FIG. 196



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FIG. 197

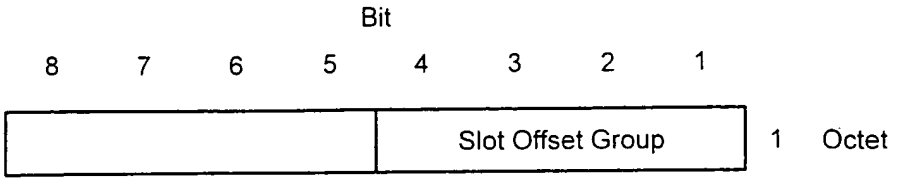


FIG. 198

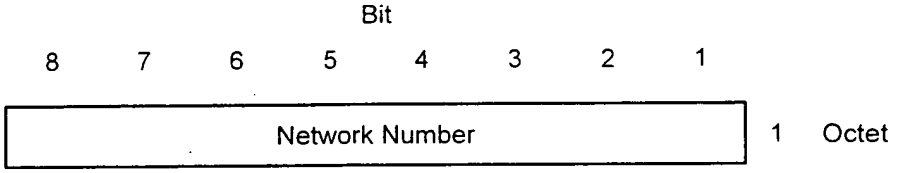


FIG. 199

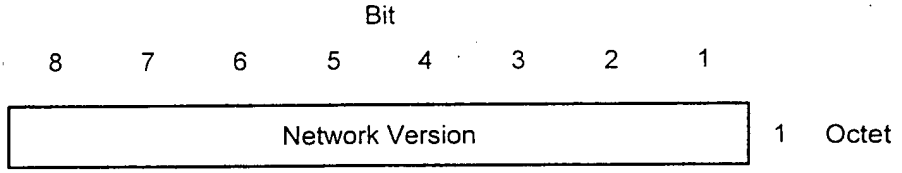


FIG. 200

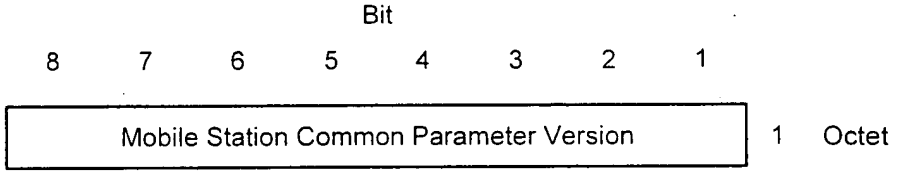
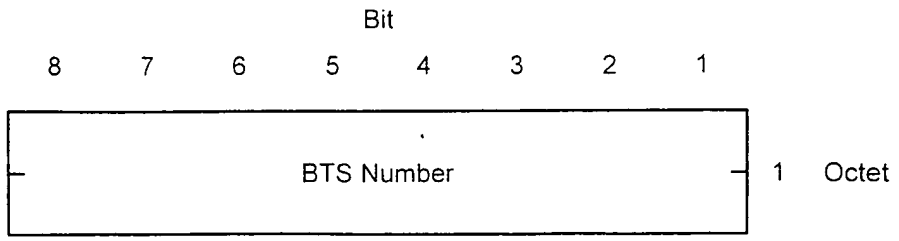


FIG. 201



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FIG. 202

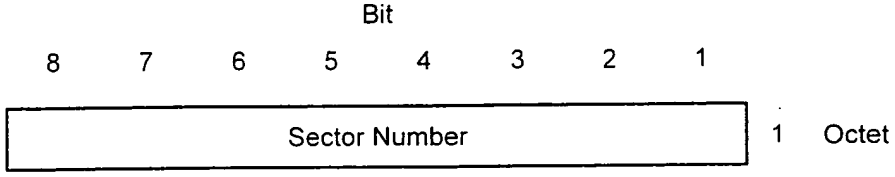
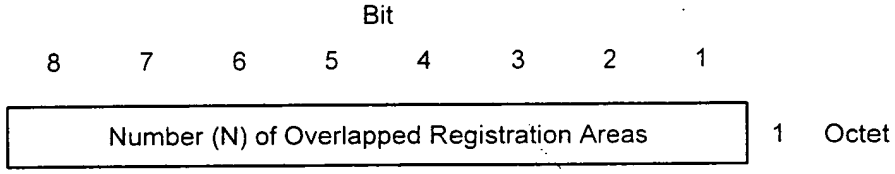


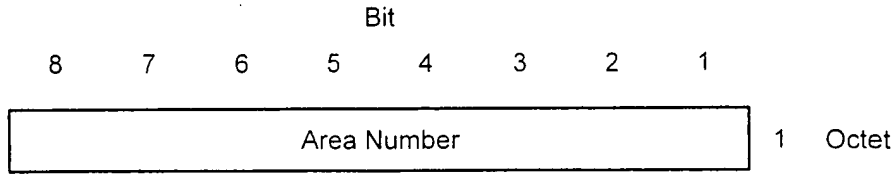
FIG. 203



Bit Pattern 4321	Number (N1) of Overlapped Areas about Each Group
0000	1
0001	2
0011	4
0111	8
1111	16
Bit Pattern	Number (N2) of Groups
Ditto	Ditto

N = N1× N2

FIG. 204



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FIG. 205

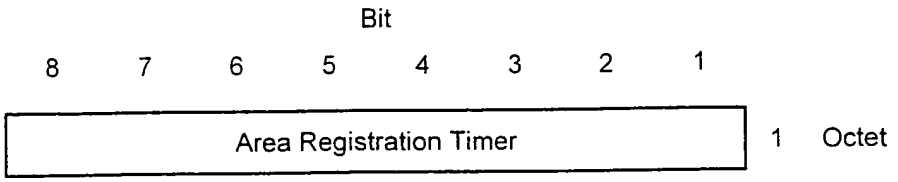


FIG. 206

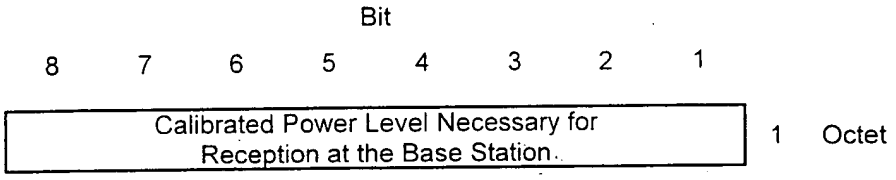


FIG. 207

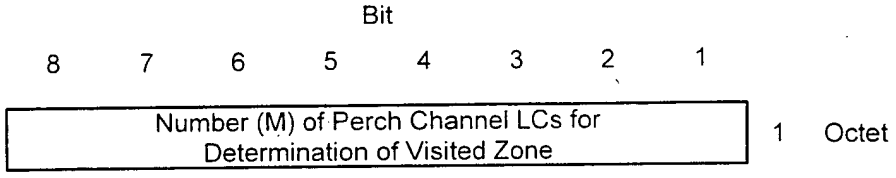


FIG. 208

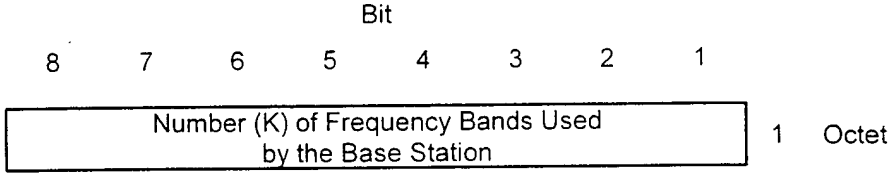
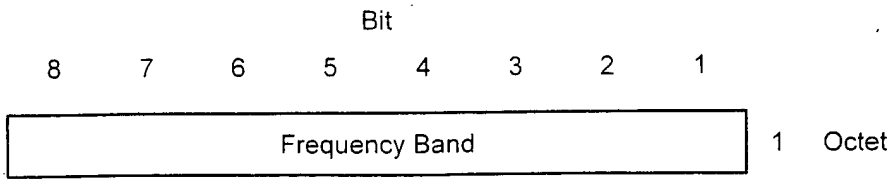


FIG. 209



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FIG. 210

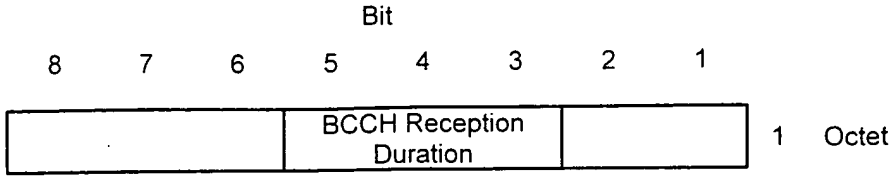


FIG. 211

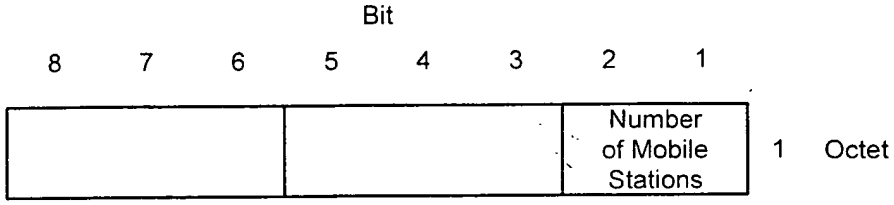


FIG. 212

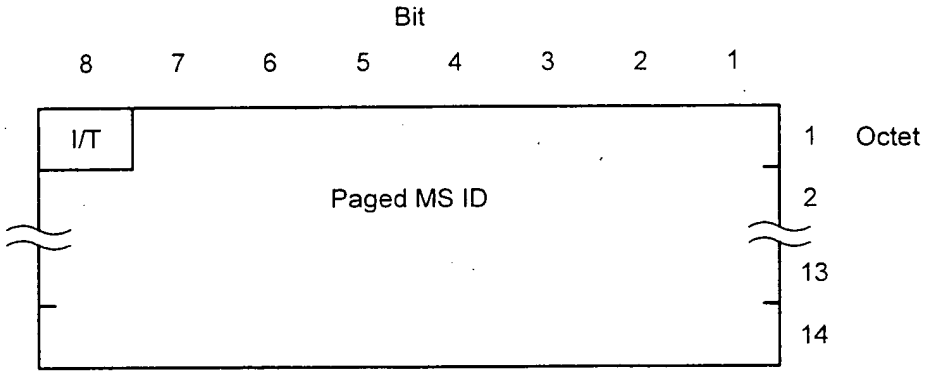
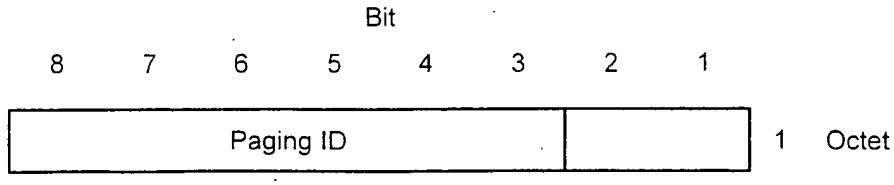
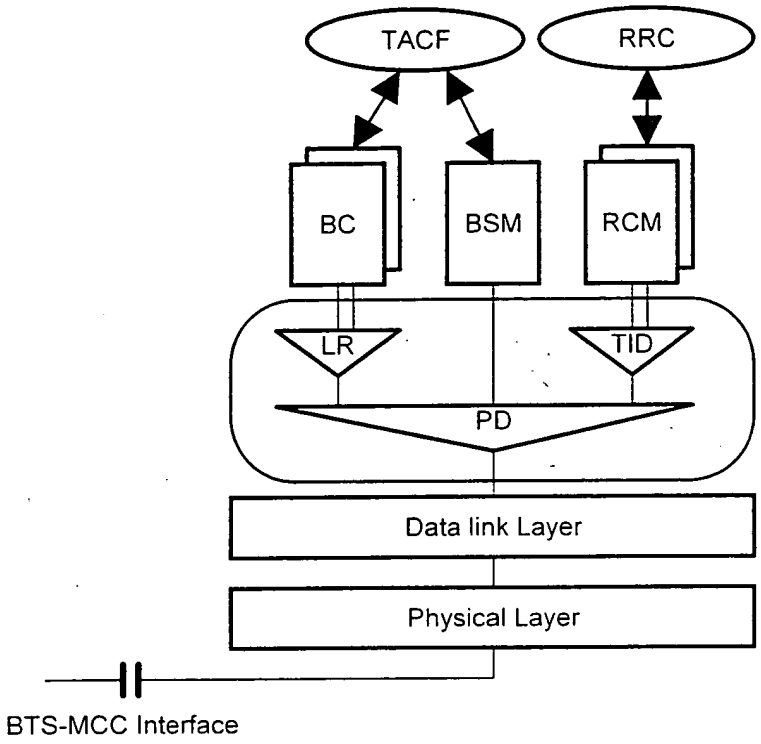


FIG. 213



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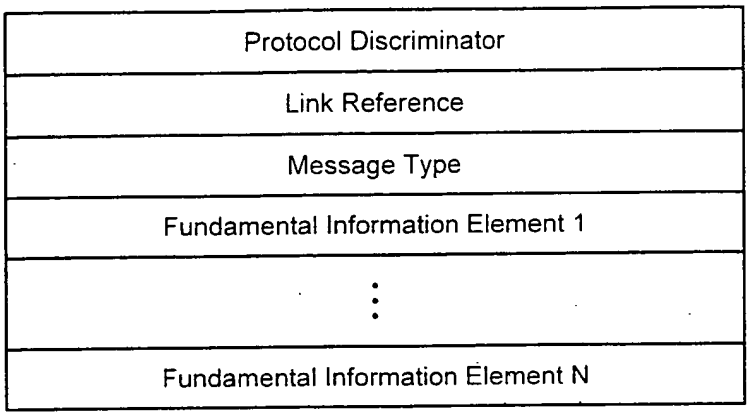
FIG. 214



BC: Bearer Control
BSM: Base Station Management
RCM: Radio Control Management
(Not Used in the Invented System)
LR: Link Reference
TID: Transaction ID
PD: Protocol Discriminator

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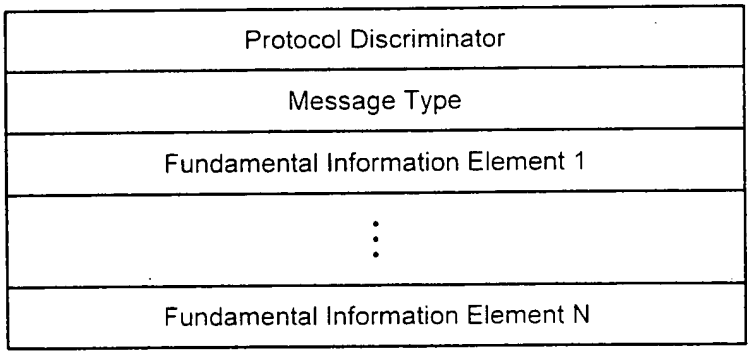
FIG. 215



The fundamental information element includes a parameter according to the necessary procedure, so that the parameter depends on the procedure.

FIG. 216

Message Format



The fundamental information element includes a parameter which is specific to the type of message.

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FIG. 217

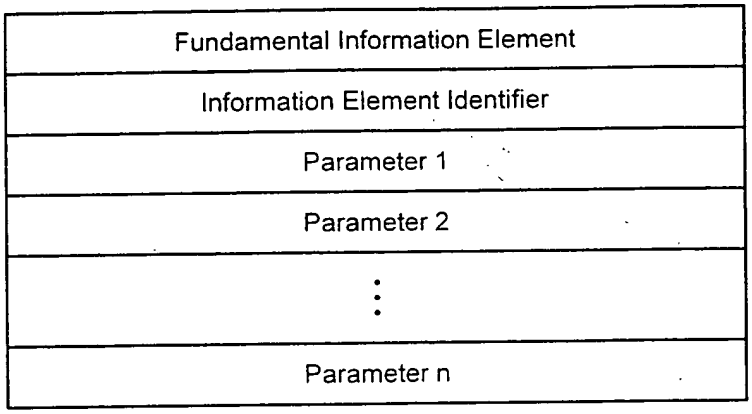
Fundamental Information Element

Information Element Identifier 1
Length of Information Element 1
Parameter 1
Information Element Identifier 2
Length of Information Element 2
Parameter 2
⋮
Information Element Identifier n
Length of Information Element n
Parameter n

An information element identifier and a length identifier are provided before a parameter.

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FIG. 218



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FIG. 219

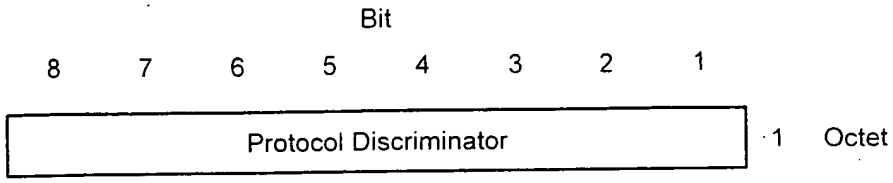


FIG. 220

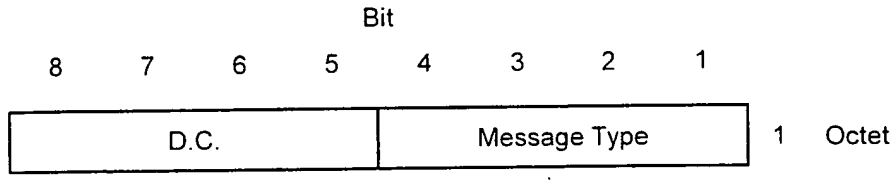
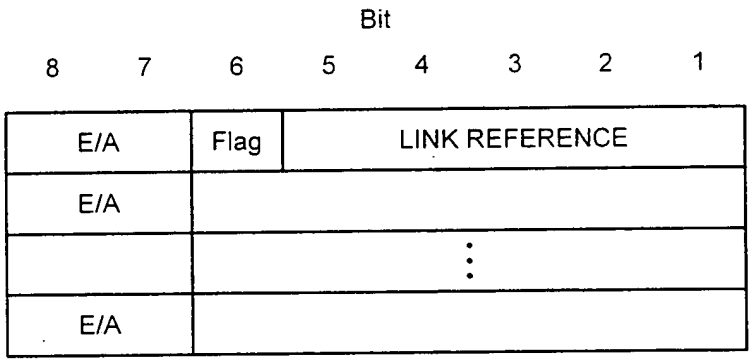
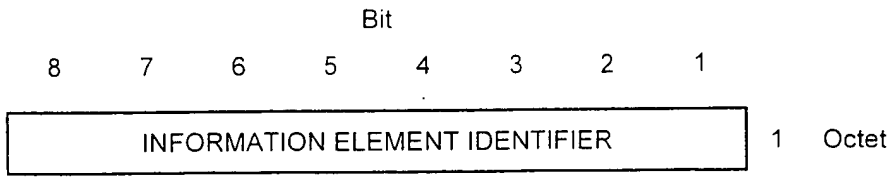


FIG. 221



Octet 2 and later octets are extended according to the value of the used link reference.

FIG. 222



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FIG. 223

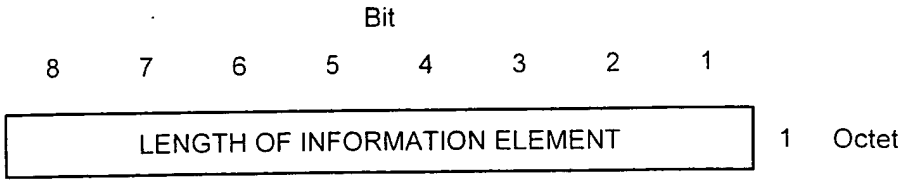
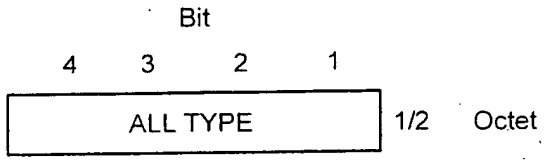


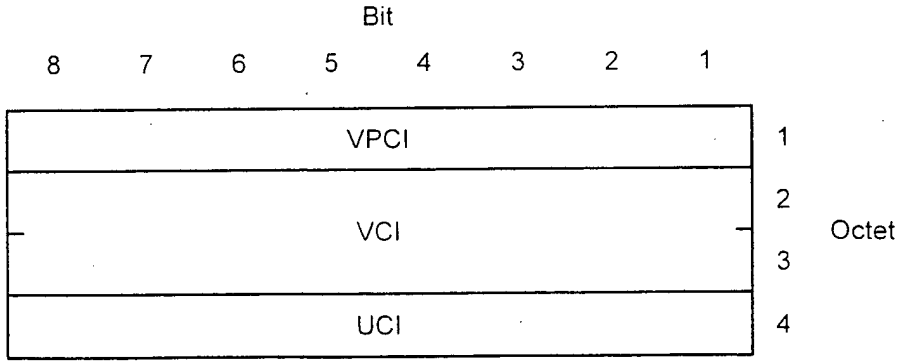
FIG. 224



Bit Pattern
0010 ALL Type 2
0101 AAL Type 5

FIG. 225

VPCI: One type of VPCI indicating Zero is used in the invited system, but 16 or more types of VPCI of which the length is 4 or more bits may be used.
VCI: 256/VPCI
UCI: 256/VCI



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FIG. 226

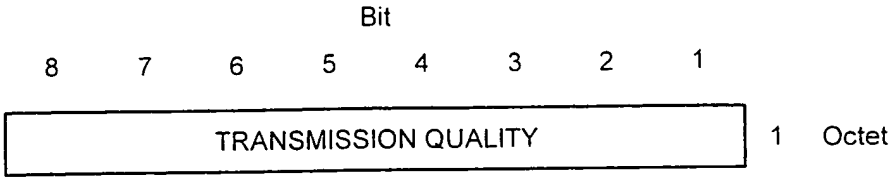


FIG. 227

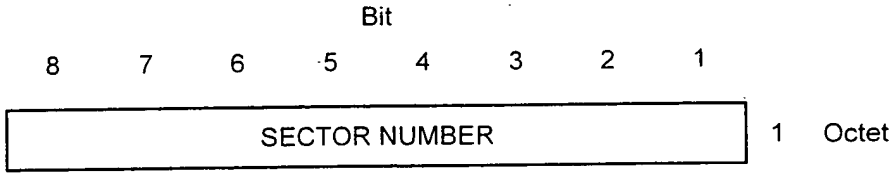


FIG. 228

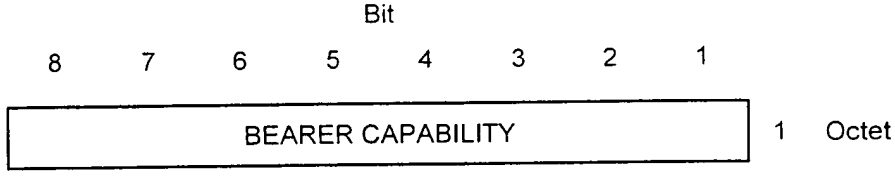


FIG. 229

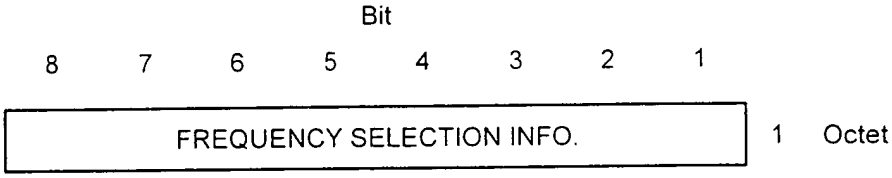
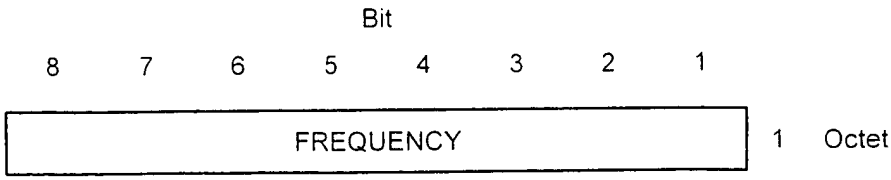


FIG. 230



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FIG. 231

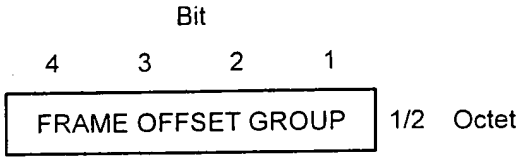


FIG. 232

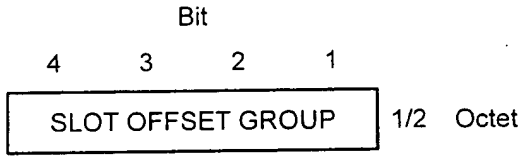
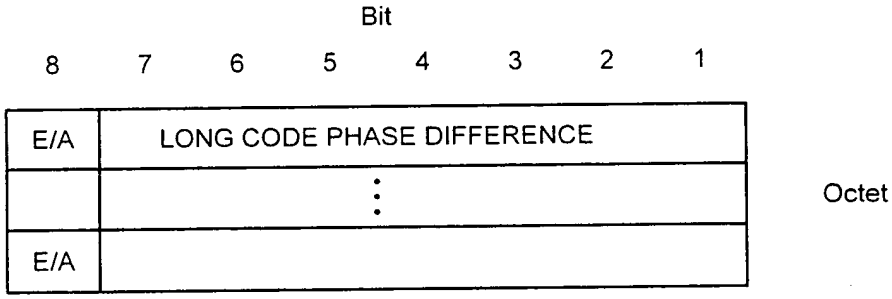


FIG. 233



When the long code phase difference is in excess of 128 chip time, the field should be extended with extension bits.

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FIG. 234

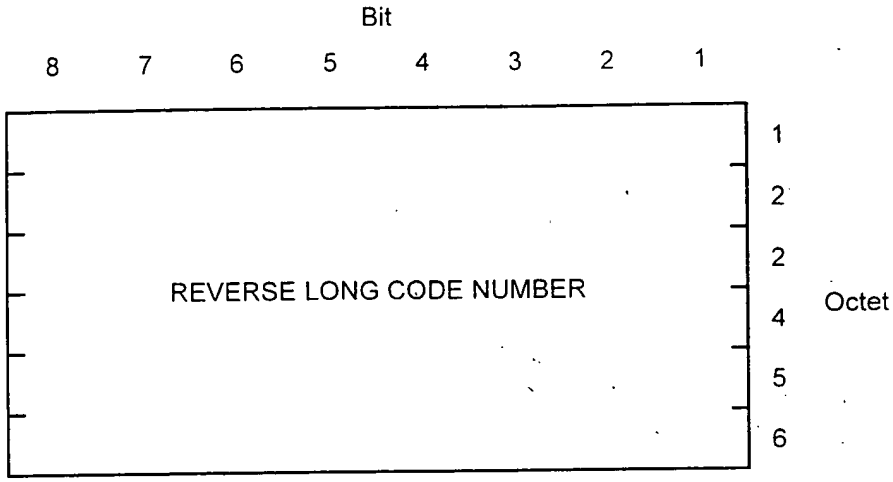
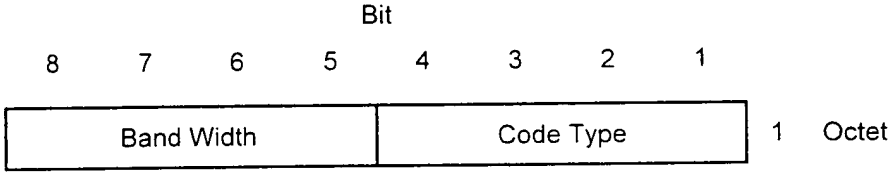


FIG. 235



Bit 8765	Bandwidth
0000	20.0 MHz
0001	10.0 MHz
0010	5.0 MHz
0011	1.25 MHz
Others	Reserved

Bit 4321	Code Type (Chip Time)
0000	1 chip/sym
0001	2 chip/sym
·	·
·	·
1001	512 chip/sym
1010	1024 chip/sym
1011	2048 chip/sym
Others	Reserved

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FIG. 236

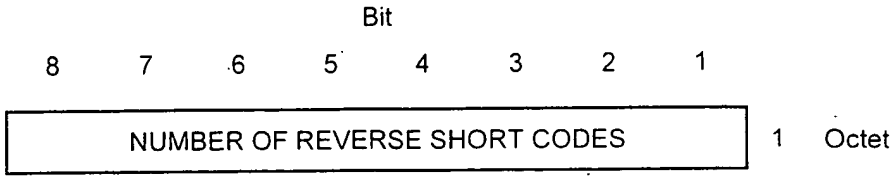


FIG. 237

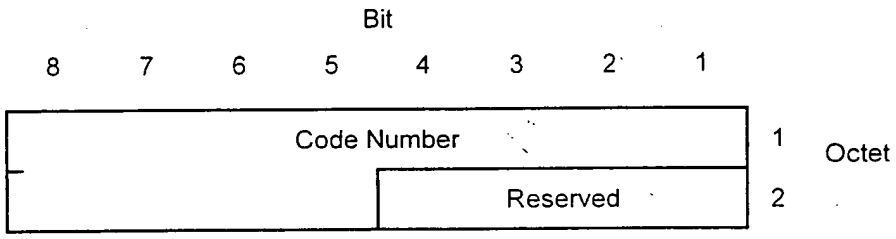
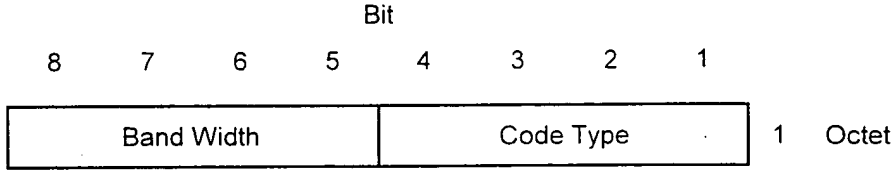


FIG. 238



Bit 8765	Bandwidth
0000	20.0 MHz
0001	10.0 MHz
0010	5.0 MHz
0011	1.25 MHz
Others	Reserved

Bit 4321	Code Type (Chip Time)
0000	1 chip/sym
0001	2 chip/sym
·	·
·	·
1001	512 chip/sym
1010	1024 chip/sym
1011	2048 chip/sym
Others	Reserved

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FIG. 239

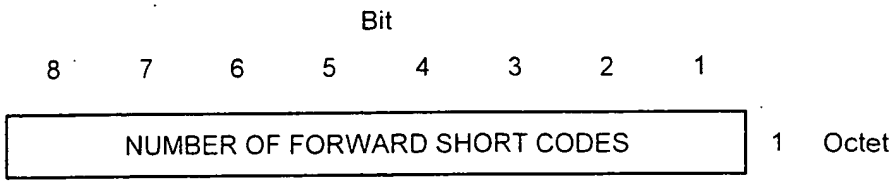


FIG. 240

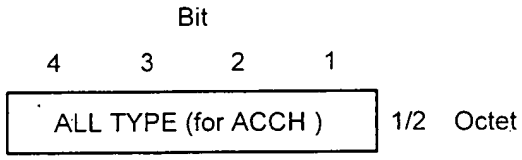


FIG. 241

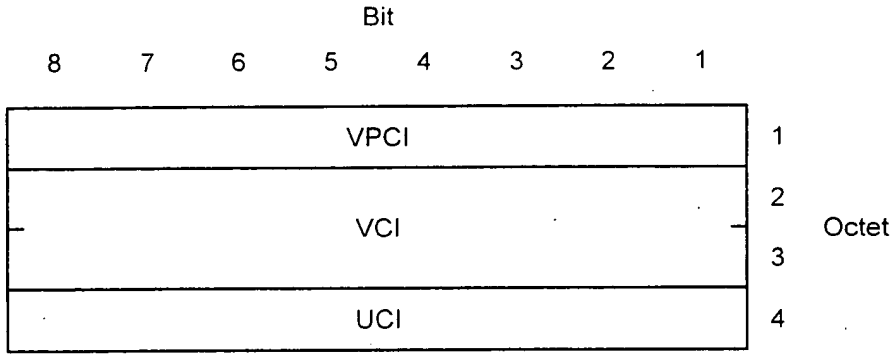
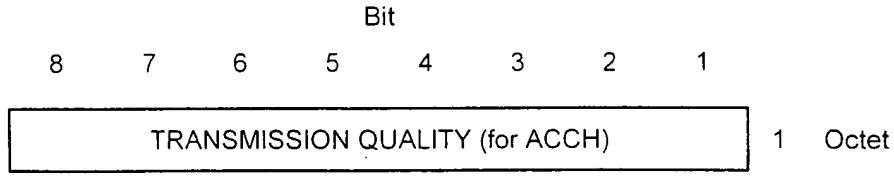


FIG. 242



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FIG. 243

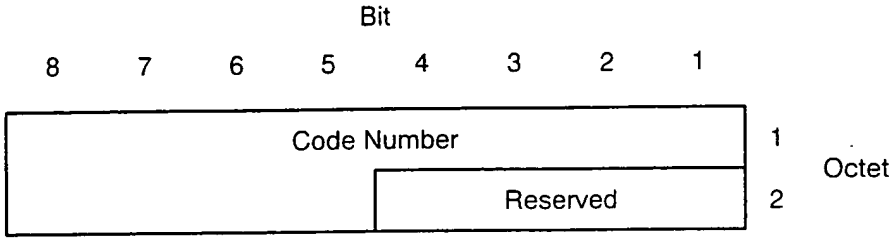
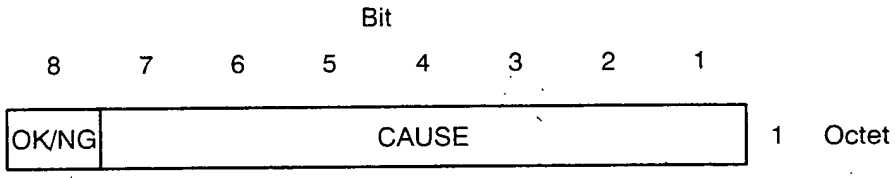


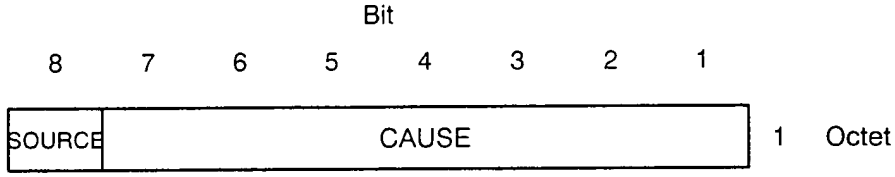
FIG. 244



OK/NG
Bit
8
0 OK
1 NG

CAUSE
Bit
7654321

FIG. 245



SOURCE
Bit
8
0: BTS
1: NW (BTS FUNCTION)

CAUSE
Bit
7654321

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FIG. 246

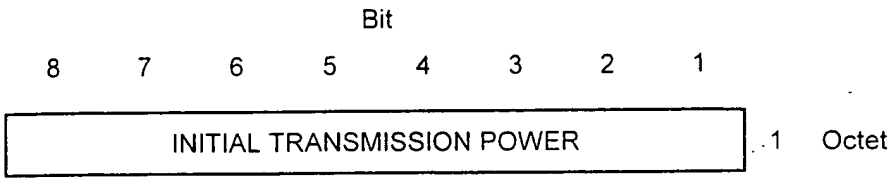


FIG. 247

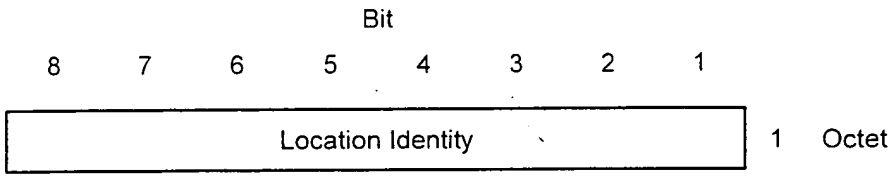


FIG. 248

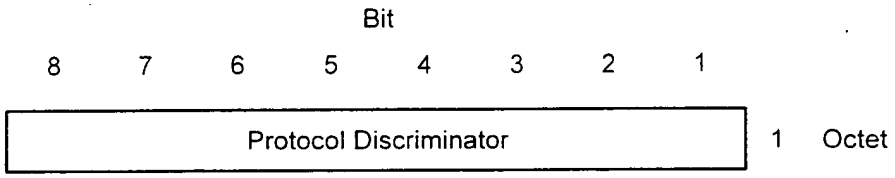
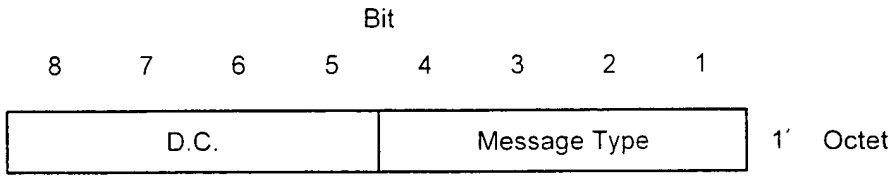


FIG. 249



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FIG. 250

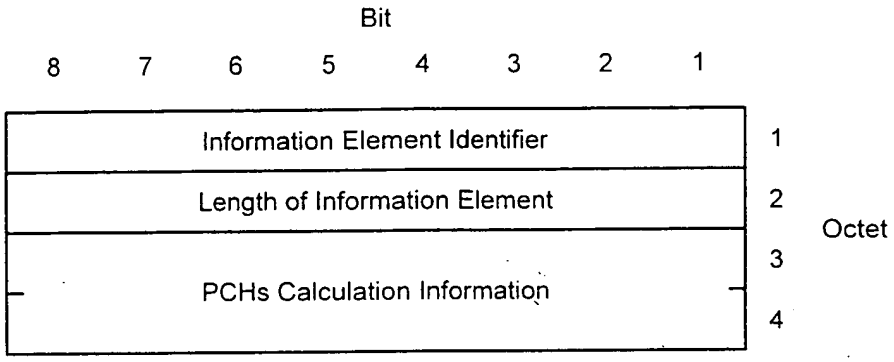
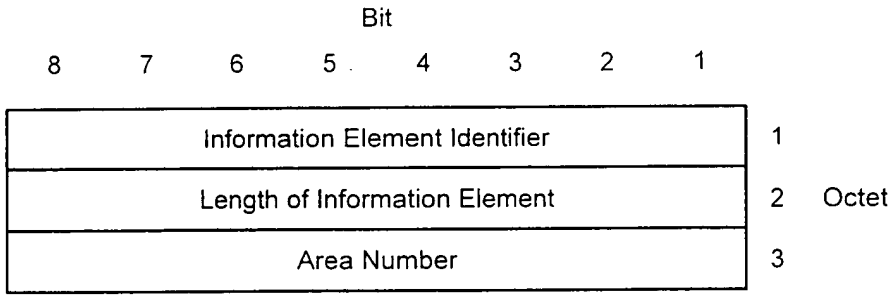
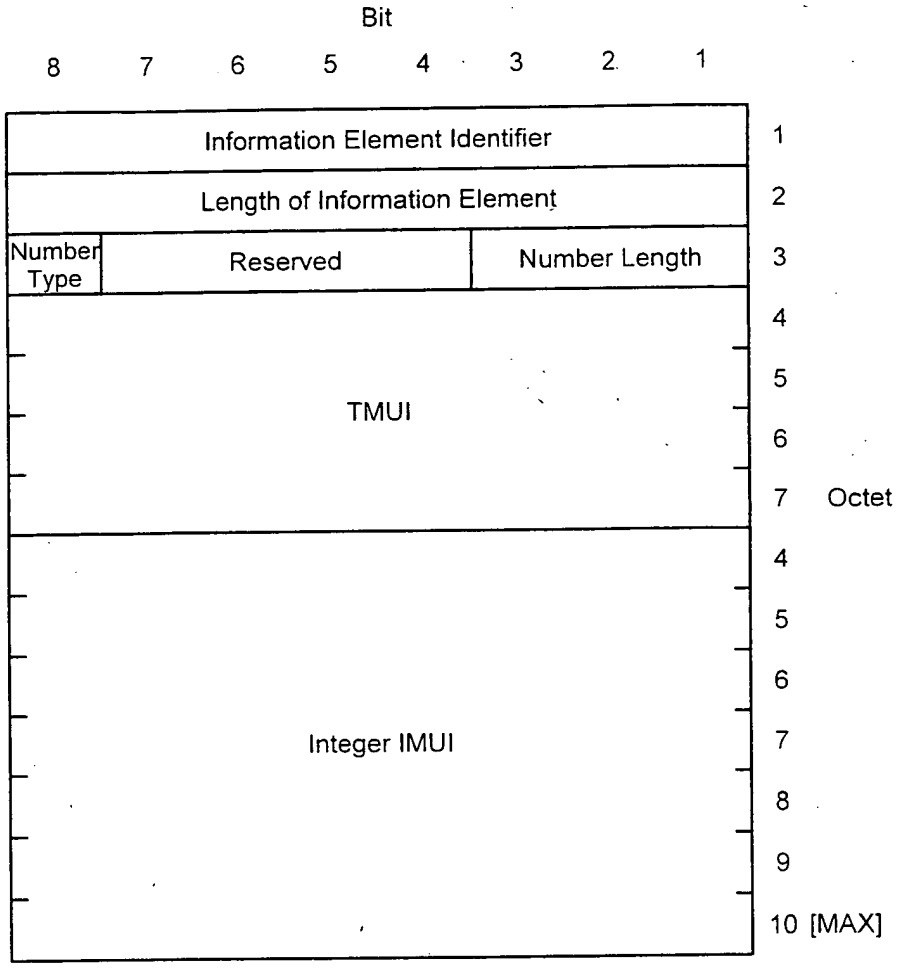


FIG. 251



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FIG. 252



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FIG. 253

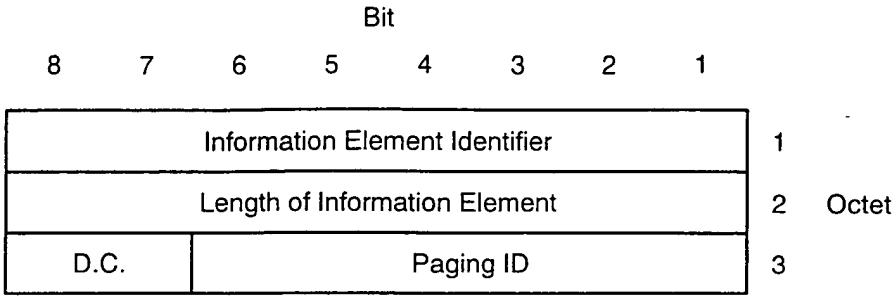
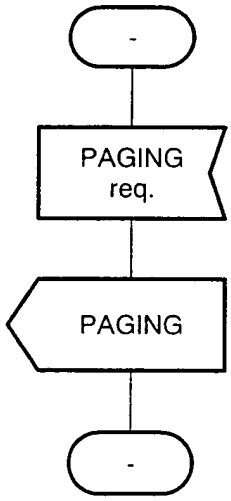


FIG. 254



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FIG. 255

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SDL DIAGRAM FOR BEARER CONTROL IN THE SDCCH EXECUTED IN THE BSC

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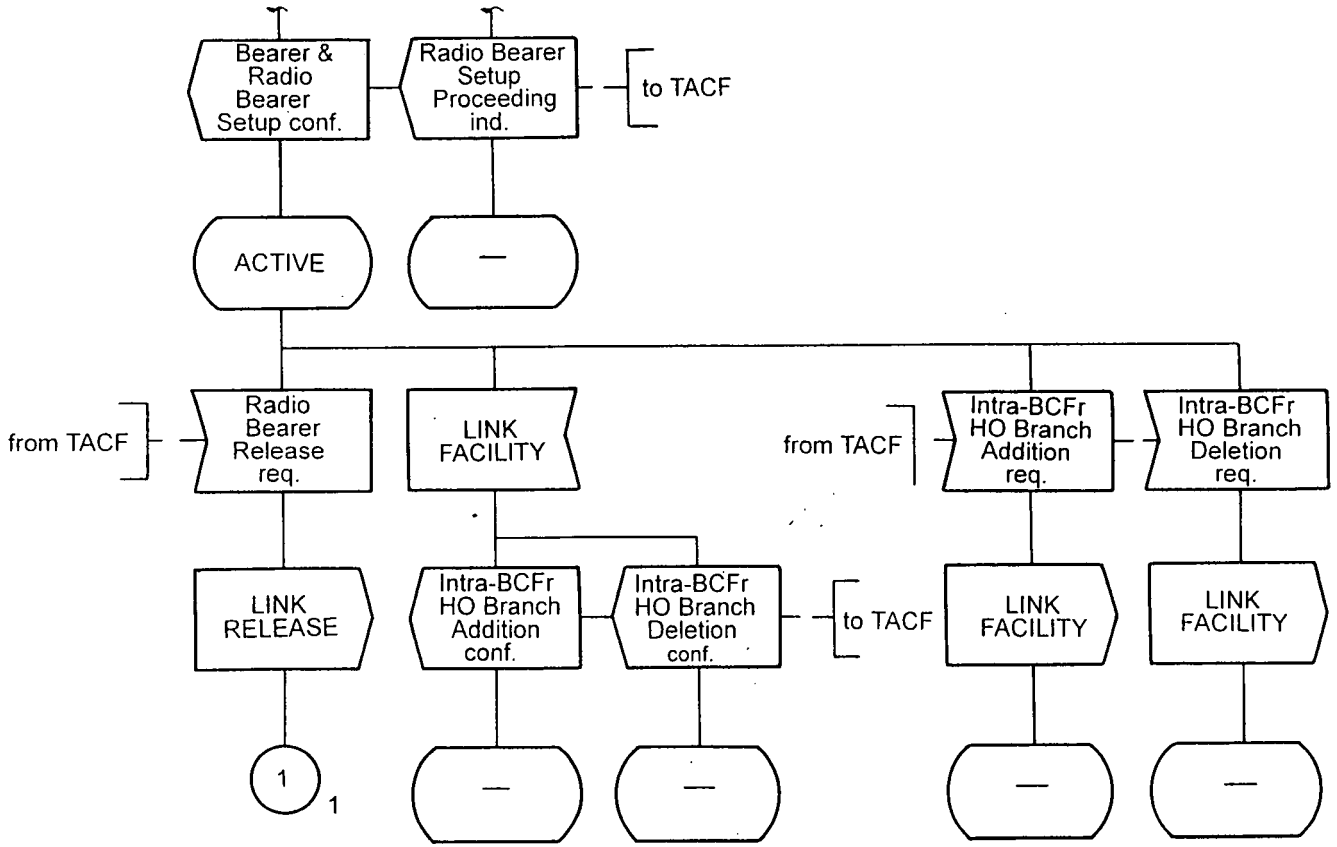
DOCZ20 "TECHNO

FIG. 256

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CONTINUED FROM FIG. 256



SDL DIAGRAM FOR BEARER CONTROL IN THE TCH/ACCH EXECUTED IN THE BSC FUNCTION OF THE NETWORK

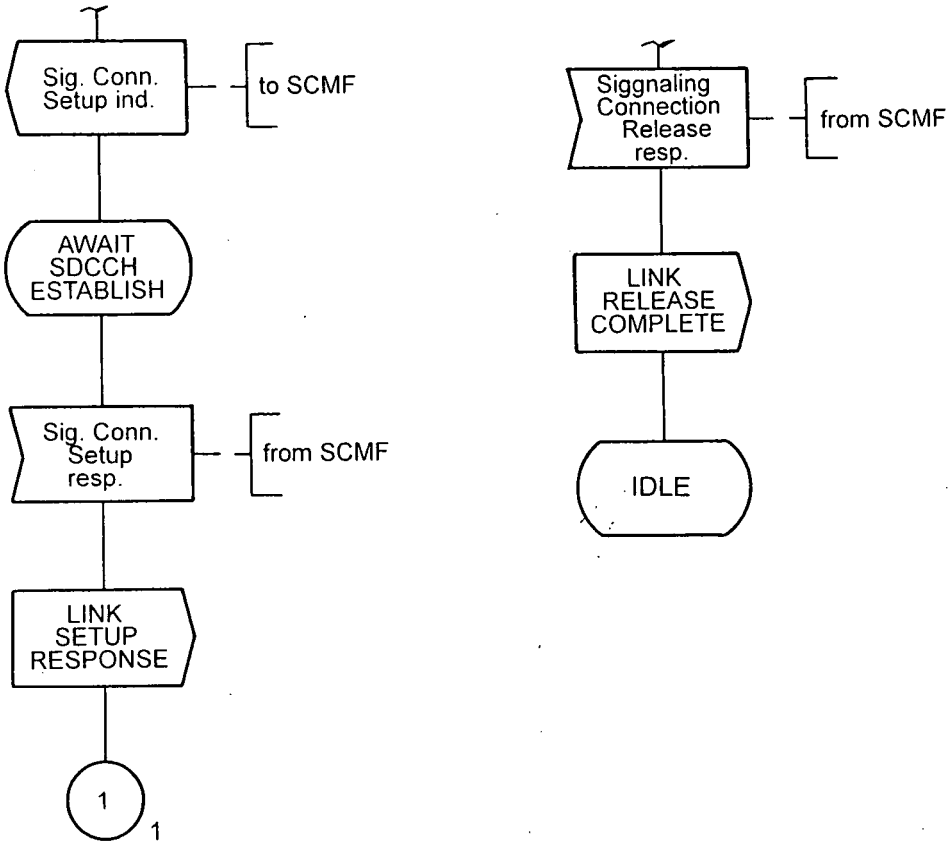
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FIG. 257

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09/403431

CONTINUED FROM FIG. 257



SDL DIAGRAM FOR BEARER CONTROL IN THE SDCCH EXECUTED IN THE BTS

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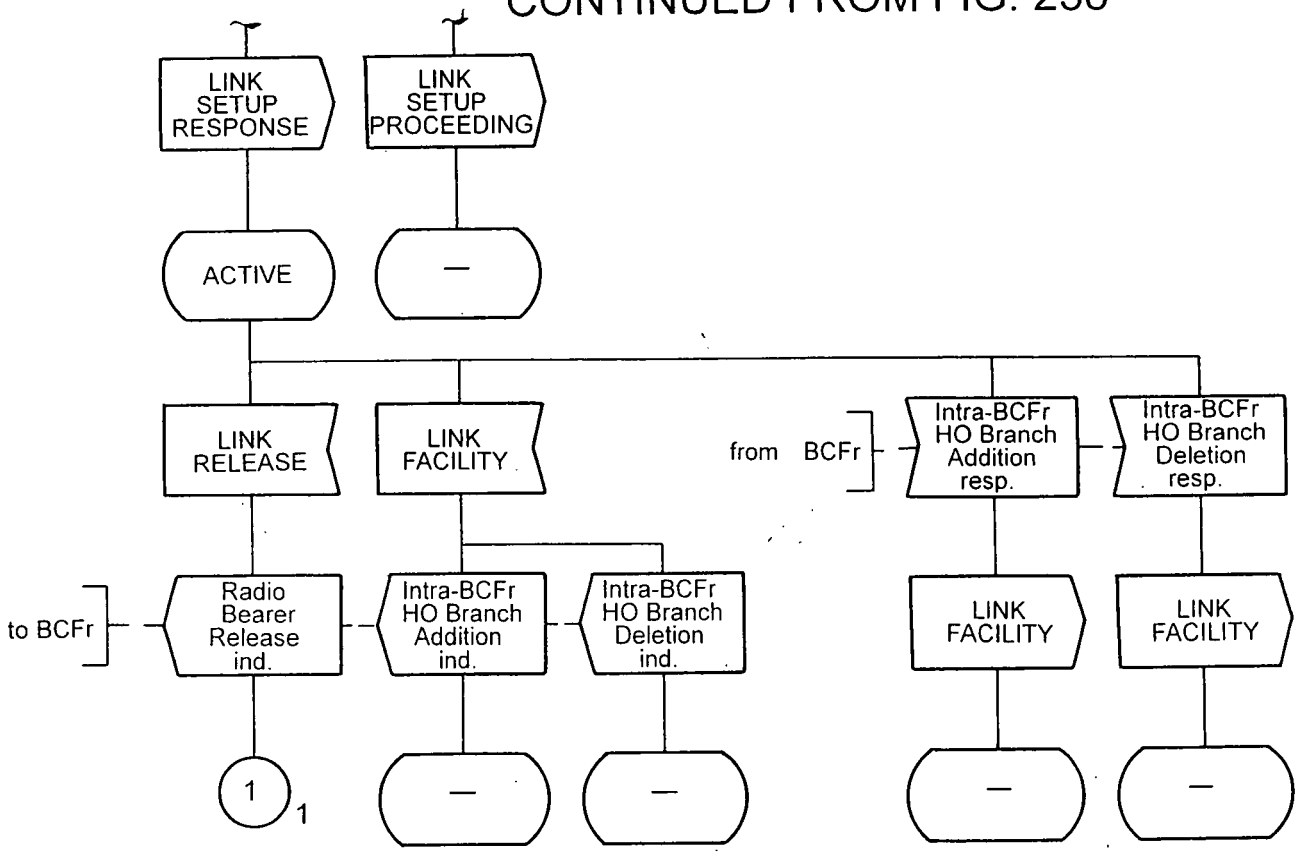
DOCID: <WO 9822880A1>

FIG. 258

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CONTINUED FROM FIG. 258

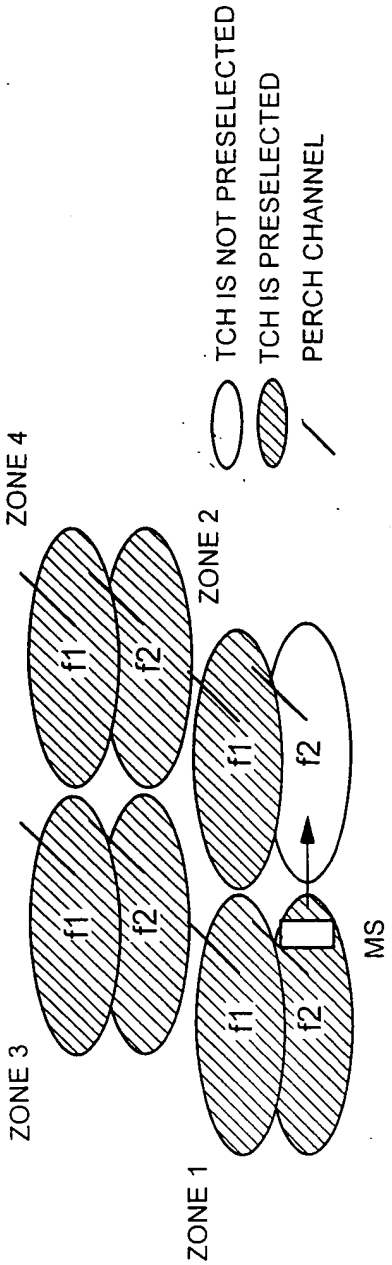


SDL DIAGRAM FOR BEARER CONTROL IN THE TCH / ACCH EXECUTED IN THE BTS

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SUBSTITUTE SHEET (RULE 26)

FIG. 259



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FIG. 260

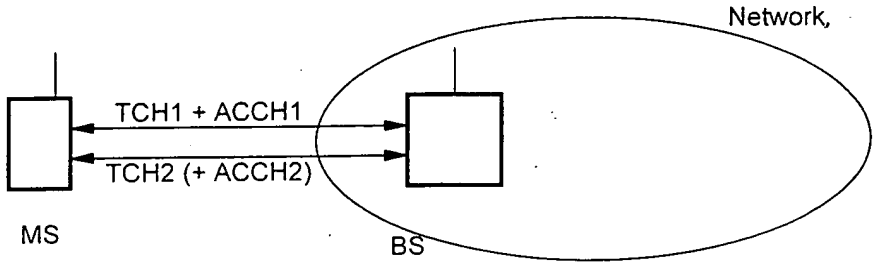
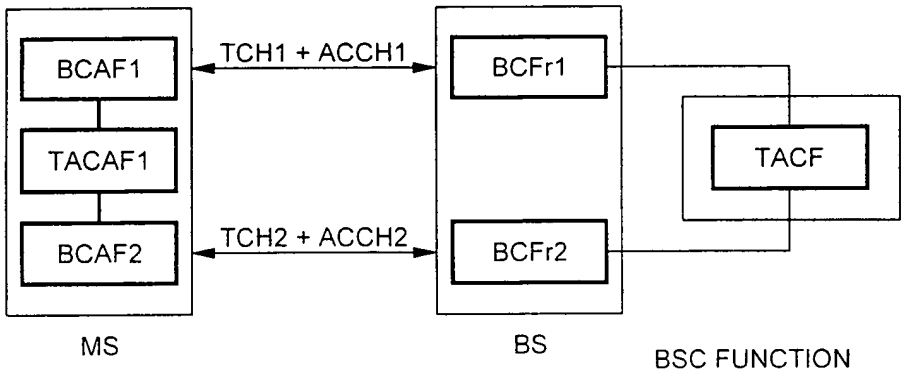


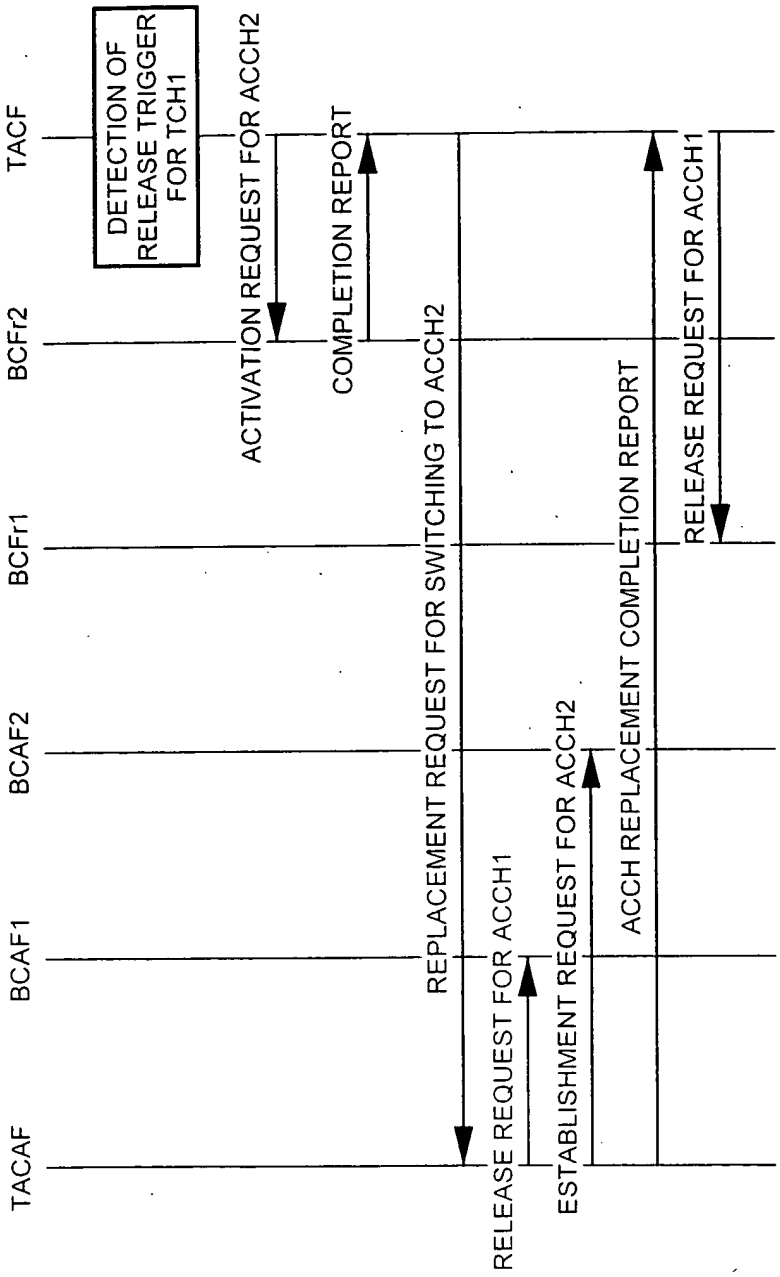
FIG. 261



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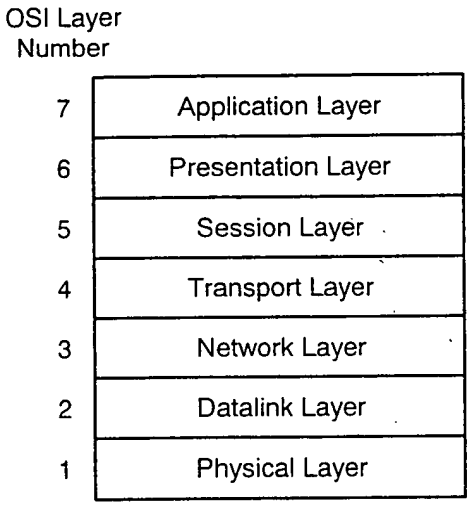
002220 "1210160

FIG. 262



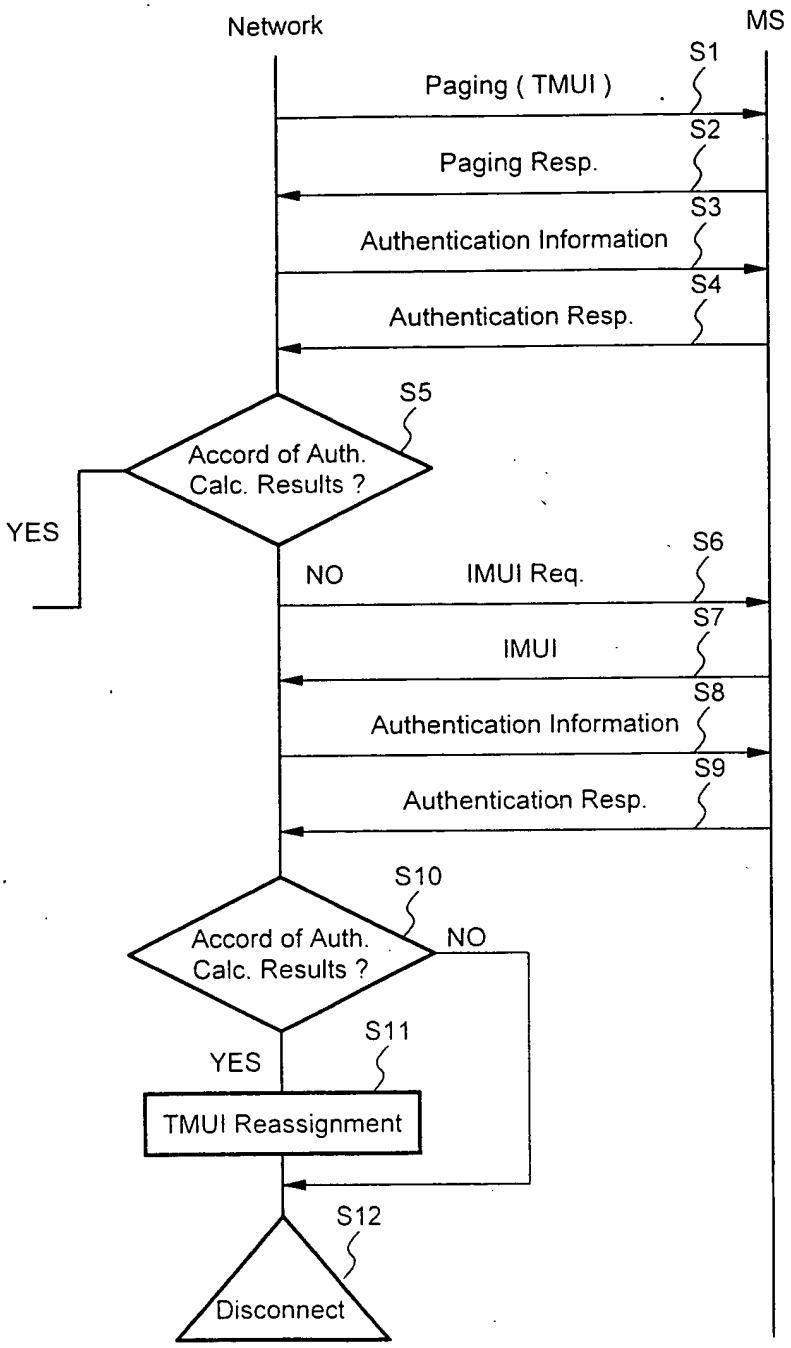
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FIG. 263



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FIG. 264



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FIG. 265

	ABBREVIATION	ORIGINAL FORM
1	BTS	Radio base terminal system
2	AMP	Transmission/reception amplifier function part
3	MDE	Base station modulation/demodulation function part
4	MS	Radio mobile station equipment
5	ANT	Antenna
6	HW	Cable transmission line
7	MCC-SIM	Radio control/switch simulator equipment
8	CODEC	Voice coding/decoding function unit
9	ADP	Adapter signal processor unit for data transmission

FIG. 266

Attribute	Content
Info. transfer capability	Voice/unrestricted digital
Transfer mode	Circuit switching/ packet switching (FFS)
Info. transfer rate	8, 64, or n x 64 kbps
Call setup	Immediate
Commun. format	Point-to-point
Symmetry	Bi-directional symmetric
Voice coding	CS-ACELP (ITU-T Recm. G.729)

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FIG. 267

Information transfer capability	Voice
Traffic type	Circuit switching
User information transfer rate	8 kbps
Call setup	Immediate
Symmetry	Bi-directional symmetric
Communication format	Point-to-point
Interconnection	None

FIG. 268

Information transfer capability	Unrestricted
Traffic type	Circuit switching
User information transfer rate	64 kbps
Call setup	Immediate
Symmetry	Bi-directional symmetric
Communication format	Point-to-point
Interconnection	None

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FIG. 269

Information transfer capability	Unrestricted
Traffic type	Circuit switching
User information transfer rate	384 kbps
Call setup	Immediate
Symmetry	Bi-directional symmetric
Communication format	Point-to-point
Interconnection	None

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FIG. 270

FE Number	EE Name	FE Number	EE Name
EE01	CCAF'	EE10	SRF
EE02	TACAF	EE11	MCF
EE03	BCAF	EE12	SACF
EE04	BCF	EE13	MRRC
EE05	TACF	EE14	MRTR
EE06	CCF'	EE15	RRC
EE07	LRCF	EE16	RFTR
EE08	LRDF	EE17	TIMF
EE09	SSF	EE18	UIMF

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FIG. 271

Relationship Designation	Related FEs	Relationship Designation	Related FEs
ra	FE01 and FE06 (CCAF'-CCF')	rp	FE13 and FE15 (MRRC-RRC)
rb	FE02 and FE05 (TACAF-TACF)	rq	FE15 and FE16 (RRC-RFTR)
rc	FE07 and FE09 (LRCF-SSF)	rr	FE03 and FE04 (BCAF-BCF)
rd	FE07 and FE08 (LRCF-LRDF)	rs	FE04 and FE06 (BCF-CCF')
re	FE09 and FE10 (SSF-SRF)	rt	FE05 and FE15 (TACF-RRC)
rf	FE07 and FE10 (LRCF-SRF)	ru	FE02 and FE13 (TACAF-MRRC)
rg	FE05 and FE07 (TACF-LRCF)	rv	FE02nd FE17 (TACAF-TIMF)
rh	FE05 and FE12 (TACF-SACF)	rw	FE11 and FE17 (MCF-TIMF)
ri	FE05 and FE06 (TACF-CCF')	rx	FE01 and FE18 (CCAF'-UIMF)
rj	FE05 and FE04 (TACF-BCF)	ry	FE11 and FE18 (MCF-UIMF)
rk	FE07 and FE12 (LRCF-SACF)	r44	FE04a and FE04b (BCFr-BCF)
rl	FE11 and FE12 (MCF-SACF)	r66	FE06 and FE06 (CCF'-CCF')
rm	FE01 and FE02 (CCAF-TACAF)	r77	FE07 and FE07 (LRCF-LRCF)
rn	FE02 and FE03 (TACAF-BCAF)	r55	FE05 and FE05 (TACF-TACF)
ro	FE13 and FE14 (MRRC-MRTR)	r88	FE08 and FE08 (LRDF-LRDF)

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FIG. 272

IE	*Relationship*	*Mandatory/Optional*
Call ID	rm	M

FIG. 273

IE	*Relationship*	*Mandatory/Optional*
User ID	rb	M

FIG. 274

IE	*Relationship*	*Mandatory/Optional*
TACF-LRCF Relationship ID	rg	M
User ID	rg	M
Service Address Information	rg	M
Anchor Tacf Instance ID	rg	M
Routing Address	rg	M
LAI	rg	O

FIG. 275

IE	*Relationship*	*Mandatory/Optional*
TACF-LRCF Relationship ID	rg	M
User ID	rg	M

FIG. 276

IE	*Relationship*	*Mandatory/Optional*
LRCF-LRDF Relationship ID	rd	M
User ID	rd	M

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FIG. 277

IE	*Relationship*	*Mandatory/Optional*
LRCF-LRDF Relationship ID	rd	M
Reverse Long Code	rd	M
Result	rd	M

FIG. 278

IE	*Relationship*	*Mandatory/Optional*
LRCF-LRDF Relationship ID	rd	M
User ID	rd	M
Terminal Status	rd	M

FIG. 279

IE	*Relationship*	*Mandatory/Optional*
LRCF-LRDF Relationship ID	rd	M

FIG. 280

IE	*Relationship*	*Mandatory/Optional*
LRCF-LRDF Relationship ID	rd	M
User ID	rd	M
Routing Address	rd	M
Anchor TACF Instance ID	rd	M

FIG. 281

IE	*Relationship*	*Mandatory/Optional*
LRCF-LRDF Relationship ID	rd	M

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FIG. 282

IE	*Relationship*	*Mandatory/Optional*
TACF-LRCF Relationship ID	rg	M
Result	rg	M

FIG. 283

IE	*Relationship*	*Mandatory/Optional*
TACF-LRCF Relationship ID	rg	M
Reverse Long Code	rg	M
Result	rg	M

FIG. 284

IE	*Relationship*	*Mandatory/Optional*
None	-	-

FIG. 285

IE	*Relationship*	*Mandatory/Optional*
Call ID	rm	M

FIG. 286

IE	*Relationship*	*Mandatory/Optional*
Call ID	ra	M
Bearer Capability	ra	M
Called Number	ra	M
Calling User ID	ra	M
QOS	ra	O
Transit Network Selection	ra	O
Low Layer Compatibility	ra	O
High Layer Compatibility	ra	O

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FIG. 287

IE	*Relationship*	*Mandatory/Optional*
TACF Instance ID	ri	M

FIG. 288

IE	*Relationship*	*Mandatory/Optional*
Cell ID + Pilot Channel Info.	ro	M
Measurement Condition	ro	M

FIG. 289

IE	*Relationship*	*Mandatory/Optional*
Pilot Channel Reception Level	ro	M
Interference Level	ro	M

FIG. 290

IE	*Relationship*	*Mandatory/Optional*
Cell IDs + Pilot Channel Reception Levels + Interference Levels	rp	M

FIG. 291

IE	*Relationship*	*Mandatory/Optional*
LRCF-SSF Relationship ID	rc	M
Service Address Information	rc	M
Bearer Capability	rc	O
Calling User ID	rc	M

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FIG. 292

IE	*Relationship*	*Mandatory/Optional*
LRCF-LRDF Relationship ID	rd	M
Calling User ID	rd	M
Selection	rd	M

FIG. 293

IE	*Relationship*	*Mandatory/Optional*
LRCF-LRDF Relationship ID	rd	M
User Profile	rd	M

FIG. 294

IE	*Relationship*	*Mandatory/Optional*
LRCF-SSF Relationship ID	rc	M
Calling Number	rc	M
Result	rc	M

FIG. 295

IE	*Relationship*	*Mandatory/Optional*
Call ID	r66	M
Bearer Capability	r66	M
Called Number	r66	M
Calling Number	r66	M
QOS	r66	O
Transit Network Selection	r66	O
Low Layer Compatibility	r66	O
High Layer Compatibility	r66	O

FIG. 296

IE	*Relationship*	*Mandatory/Optional*
Call ID	ra	M

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FIG. 297

IE	*Relationship*	*Mandatory/Optional*
Number Of Measured Cells	rt	M
Cell IDs + Pilot Channels Info.	rt	M
Measurement Condition	rt	M

FIG. 298

IE	*Relationship*	*Mandatory/Optional*
Number of Measured Cells	rp	M
Cell IDs + Pilot Channels Info.	rp	M
Measurement Condition	rp	M

FIG. 299

IE	*Relationship*	*Mandatory/Optional*
Call ID	r66	M

FIG. 300

IE	*Relationship*	*Mandatory/Optional*
Call ID	ra	M

FIG. 301

IE	*Relationship*	*Mandatory/Optional*
Call ID	r66	M
Called Number	r66	O
Connected Line ID	r66	O
High Layer Compatibility	r66	O
Low Layer Compatibility	r66	O

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FIG. 302

IE	*Relationship*	*Mandatory/Optional*
Call ID	ra	M
Called Number	ra	O
Connected Line ID	ra	O
High Layer Compatibility	ra	O
Low Layer Compatibility	ra	O

FIG. 303

IE	*Relationship*	*Mandatory/Optional*
Call ID	r66	M
Bearer Capability	r66	M
Called Number	r66	O
Roaming Number	r66	O
Calling User Number	r66	M
QOS	r66	O
Transit Network Selection	r66	O
Low Layer Compatibility	r66	O
High Layer Compatibility	r66	O

FIG. 304

IE	*Relationship*	*Mandatory/Optional*
LRCF-SSF Relationship ID	rc	M
Called User Number	rc	O
Roaming Number	rc	O
Service Address Information	rc	M

FIG. 305

IE	*Relationship*	*Mandatory/Optional*
LRCF-LRDF Relationship ID	rd	M
Called User ID	rd	O
Roaming Number	rd	O
Selection	rd	M

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FIG. 306

IE	*Relationship*	*Mandatory/Optional*
LRCF-LRDF Relationship ID	rd	M
User ID	rd	M

FIG. 307

IE	*Relationship*	*Mandatory/Optional*
LRCF-LRDF Relationship ID	rd	M
User ID	rd	M
Selection	rd	M

FIG. 308

IE	*Relationship*	*Mandatory/Optional*
LRCF-LRDF Relationship ID	rd	M
Terminal Status	rd	M

FIG. 309

IE	*Relationship*	*Mandatory/Optional*
LRCF-LRDF Relationship ID	rd	M
User ID	rd	M
Terminal Status	rd	M

FIG. 310

IE	*Relationship*	*Mandatory/Optional*
LRCF-LRDF Relationship ID	rd	M

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FIG. 311

IE	*Relationship*	*Mandatory/Optional*
LRCF-LRDF Relationship ID	rd	M
User ID	rd	M
Selection	rd	M

FIG. 312

IE	*Relationship*	*Mandatory/Optional*
LRCF-LRDF Relationship ID	rd	M
Paging Area	rd	M

FIG. 313

IE	*Relationship*	*Mandatory/Optional*
Paging Relationship ID	rg	M
User ID (TMUI)	rg	M
LAI (Paging Area)	rg	M

FIG. 314

IE	*Relationship*	*Mandatory/Optional*
Paging ID	rb	M
TMUI	rb	M

FIG. 315

IE	*Relationship*	*Mandatory/Optional*
Paging ID	rb	M

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FIG. 316

IE	*Relationship*	*Mandatory/Optional*
Paging Relationship ID	rg	M
Radio Zone ID	rg	O
Anchor TACF Instance ID	rg	O
Routing Address	rg	O

FIG. 317

IE	*Relationship*	*Mandatory/Optional*
TACF-LRCF Relationship ID	rg	M
User ID	rg	M

FIG. 318

IE	*Relationship*	*Mandatory/Optional*
LRCF-LRDF Relationship ID	rd	M
User ID	rd	M

FIG. 319

IE	*Relationship*	*Mandatory/Optional*
LRCF-LRDF Relationship ID	rd	M
Reverse Long Code	rd	M
Result	rd	M

FIG. 320

IE	*Relationship*	*Mandatory/Optional*
Cell ID + Pilot Channel Info.	ro	M
Measurement Condition	ro	M

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FIG. 321

IE	*Relationship*	*Mandatory/Optional*
Pilot Channel Reception Level	ro	M
Interference Level	ro	M

FIG. 322

IE	*Relationship*	*Mandatory/Optional*
Cell ID + Pilot Channel Info.	rp	M
Levels + Interference Levels	rp	M

FIG. 323

IE	*Relationship*	*Mandatory/Optional*
LRCF-LRDF Relationship ID	rd	M
User ID	rd	M
Routing Address	rd	M
TACF Instance ID	rd	M

FIG. 324

IE	*Relationship*	*Mandatory/Optional*
LRCF-LRDF Relationship ID	rd	M

FIG. 325

IE	*Relationship*	*Mandatory/Optional*
Paging Relationship ID	rg	M
Result	rg	M

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FIG. 326

IE	*Relationship*	*Mandatory/Optional*
TACF-LRCF Relationship ID	rg	M
Reverse Long Code	rg	M
Result	rg	M

FIG. 327

IE	*Relationship*	*Mandatory/Optional*
LRCF-SSF Relationship ID	rc	M
Roaming Number	rc	O
Routing Address	rc	O
TACF Instance ID	rc	O

FIG. 328

IE	*Relationship*	*Mandatory/Optional*
Call ID	r66	M
Roaming Number	r66	M
Calling User ID	r66	M

FIG. 329

IE	*Relationship*	*Mandatory/Optional*
LRCF-SSF Relationship ID		M
Service Address Info.		M
Called User Number		M

FIG. 330

IE	*Relationship*	*Mandatory/Optional*
LRCF-LRDF Relationship ID	rd	M
Called User ID	rd	M
Selection	rd	M

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FIG. 331

IE	*Relationship*	*Mandatory/Optional*
LRCF-LRDF Relationship ID	rd	M
User Profile	rd	M

FIG. 332

IE	*Relationship*	*Mandatory/Optional*
LRCF-SSF Relationship ID		M
Result		M

FIG. 333

IE	*Relationship*	*Mandatory/Optional*
Call ID	ra	M
Bearer Capability	ra	M
Called Number	ra	M
Calling User ID	ra	M
QOS Parameter	ra	O
Transit Network Selection	ra	O
Low Layer Compatibility	ra	O
High Layer Compatibility	ra	O

FIG. 334

IE	*Relationship*	*Mandatory/Optional*
Call ID	ra	M

FIG. 335

IE	*Relationship*	*Mandatory/Optional*
Number Of Measured Cells	rp	M
Cell IDs + Pilot Channels Info.	rp	M
Measurement Condition	rp	M

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FIG. 336

IE	*Relationship*	*Mandatory/Optional*
Call ID	ra	M

FIG. 337

IE	*Relationship*	*Mandatory/Optional*
Call ID	ra	M
Bearer Capability	ra	M
Called Number	ra	O
QOS Parameter	ra	O
Transmit Network Selection	ra	O
Connected Line ID	ra	O
Low Layer Compatibility	ra	O
High Layer Compatibility	ra	O

FIG. 338

IE	*Relationship*	*Mandatory/Optional*
Call ID	ra	M

FIG. 339

IE	*Relationship*	*Mandatory/Optional*
Call ID	ra	M
Cause	ra	M

FIG. 340

IE	*Relationship*	*Mandatory/Optional*
Call ID	ra	M

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FIG. 341

IE	*Relationship*	*Mandatory/Optional*
TACF-SCF Relationship ID	rg	M
User ID	rg	M
Service Address Info.	rg	M

FIG. 342

IE	*Relationship*	*Mandatory/Optional*
LRCF-LRDF Relationship ID	rd	M
User ID	rd	M

FIG. 343

IE	*Relationship*	*Mandatory/Optional*
TACF-LRCF Relationship ID	rg	M

FIG. 344

IE	*Relationship*	*Mandatory/Optional*
TACF-LRCF Relationship ID	rg	M

FIG. 345

IE	*Relationship*	*Mandatory/Optional*
Call ID	ra	M
Cause	ra	M

FIG. 346

IE	*Relationship*	*Mandatory/Optional*
Call ID	ra	M

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FIG. 347

IE	*Relationship*	*Mandatory/Optional*
TACF-LRCF Relationship ID	rg	M
User ID	rg	M
Service Address Info.	rg	M

FIG. 348

IE	*Relationship*	*Mandatory/Optional*
LRCF-LRDF Relationship ID	rd	M
User ID	rd	M

FIG. 349

IE	*Relationship*	*Mandatory/Optional*
TACF-LRCF Relationship ID	rg	M

FIG. 350

IE	*Relationship*	*Mandatory/Optional*
TACF-LRCF Relationship ID	rg	M

FIG. 351

IE	*Relationship*	*Mandatory/Optional*
TACAF-BCAF Relationship ID	rn	M
Cause	rn	M

FIG. 352

IE	*Relationship*	*Mandatory/Optional*
Call ID	rm	M

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FIG. 353

IE	*Relationship*	*Mandatory/Optional*
Call ID	rb	M
Cause	rb	M

FIG. 354

IE	*Relationship*	*Mandatory/Optional*
CCF-TACAF Relationship ID	ri	M
Call ID	ri	M
Cause	ri	M

FIG. 355

IE	*Relationship*	*Mandatory/Optional*
CCF-TACF Relationship ID	ri	M

FIG. 356

IE	*Relationship*	*Mandatory/Optional*
Call ID	rb	M
Cause	rb	M

FIG. 357

IE	*Relationship*	*Mandatory/Optional*
TACF-BCF Relationship ID	rjb	M

FIG. 358

IE	*Relationship*	*Mandatory/Optional*
TACF-BCF Relationship ID	rjb	M

FIG. 359

IE	*Relationship*	*Mandatory/Optional*
TACF-TACF Relationship ID		M
Call ID		M

FIG. 360

IE	*Relationship*	*Mandatory/Optional*
TACF-BCF Relationship ID	rjb	M

FIG. 361

IE	*Relationship*	*Mandatory/Optional*
TACF-BCF Relationship ID	rjb	M

FIG. 362

IE	*Relationship*	*Mandatory/Optional*
TACF-BCFr Relationship ID	rja	M

FIG. 363

IE	*Relationship*	*Mandatory/Optional*
TACF-BCFr Relationship ID	rja	M

FIG. 364

IE	*Relationship*	*Mandatory/Optional*
TACF-TACF Relationship ID	rb	M

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FIG. 365

IE	*Relationship*	*Mandatory/Optional*
TACF-LRCF Relationship ID	rg	M
User ID	rg	M
Service Address Info.	rg	M

FIG. 366

IE	*Relationship*	*Mandatory/Optional*
LRCF-LRDF Relationship ID	rd	M
User ID	rd	M

FIG. 367

IE	*Relationship*	*Mandatory/Optional*
LRCF-LRDF Relationship ID	rd	M

FIG. 368

IE	*Relationship*	*Mandatory/Optional*
TACF-LRCF Relationship ID	rg	M

FIG. 369

IE	*Relationship*	*Mandatory/Optional*
Call ID	rjb	M
Cause	rjb	M

FIG. 370

IE	*Relationship*	*Mandatory/Optional*
CCF-TACAF Relationship ID	ri	M
Call ID	ri	M
Cause	ri	M

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FIG. 371

IE	*Relationship*	*Mandatory/Optional*
CCF-TACF Relationship ID	ri	M

FIG. 372

IE	*Relationship*	*Mandatory/Optional*
Call ID	rb	M
Cause	rb	M

FIG. 373

IE	*Relationship*	*Mandatory/Optional*
Call ID	rm	M

FIG. 374

IE	*Relationship*	*Mandatory/Optional*
Call ID	rb	M

FIG. 375

IE	*Relationship*	*Mandatory/Optional*
TACF-BCF Relationship ID	rjb	M

FIG. 376

IE	*Relationship*	*Mandatory/Optional*
TACF-BCF Relationship ID	rjb	M

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FIG. 377

IE	*Relationship*	*Mandatory/Optional*
TACF-TACF Relationship ID		M
Call ID		M

FIG. 378

IE	*Relationship*	*Mandatory/Optional*
TACF-BCF Relationship ID	rjb	M

FIG. 379

IE	*Relationship*	*Mandatory/Optional*
TACF-BCF Relationship ID	rjb	M

FIG. 380

IE	*Relationship*	*Mandatory/Optional*
TACF-BCFr Relationship ID	rja	M

FIG. 381

IE	*Relationship*	*Mandatory/Optional*
TACF-BCFr Relationship ID	rja	M

FIG. 382

IE	*Relationship*	*Mandatory/Optional*
TACF-TACF Relationship ID		M

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FIG. 383

IE	*Relationship*	*Mandatory/Optional*
TACAF-BCAF Relationship ID	rn	M

FIG. 384

IE	*Relationship*	*Mandatory/Optional*
TACAF-BCAF Relationship ID	rn	M

FIG. 385

IE	*Relationship*	*Mandatory/Optional*
TACF-LRCF Relationship ID	rg	M
User ID	rg	M
Service Address Info.	rg	M

FIG. 386

IE	*Relationship*	*Mandatory/Optional*
LRCF-LRDF Relationship ID	rd	M
User ID	rd	M

FIG. 387

IE	*Relationship*	*Mandatory/Optional*
LRCF-LRDF Relationship ID	rd	M

FIG. 388

IE	*Relationship*	*Mandatory/Optional*
TACF-LRCF Relationship ID	rg	M

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FIG. 389

IE	*Relationship*	*Mandatory/Optional*
LRCF-SSF Relationship ID	rc	M
User ID	rc	M
Cause	rc	M
Service Address Info.	rc	M

FIG. 390

IE	*Relationship*	*Mandatory/Optional*
LRCF-LRDF Relationship ID	rd	M
User ID	rd	M

FIG. 391

IE	*Relationship*	*Mandatory/Optional*
LRCF-LRDF Relationship ID	rd	M

FIG. 392

IE	*Relationship*	*Mandatory/Optional*
LRCF-SSF Relationship ID	rc	M

FIG. 393

IE	*Relationship*	*Mandatory/Optional*
TACAF/MCF-SCMAF Relationship ID		M

FIG. 394

IE	*Relationship*	*Mandatory/Optional*
Random Number		M
Power Control Information		M

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FIG. 395

IE	*Relationship*	*Mandatory/Optional*
Random Number		M
Forward Link Info.		M
Reverse Link Info.		

FIG. 396

IE	*Relationship*	*Mandatory/Optional*
SCMF-TACF/SACF Relationship ID		M
Location Information		M
QOS		M

FIG. 397

IE	*Relationship*	*Mandatory/Optional*
SCMF-TACF/SACF Relationship ID		M
Bearer ID		M
		M

FIG. 398

IE	*Relationship*	*Mandatory/Optional*
SCMF-TACF/SACF Relationship ID		M

FIG. 399

IE	*Relationship*	*Mandatory/Optional*
TACAF/MCF-SCMAF Relationship ID		M

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FIG. 400

IE	*Relationship*	*Mandatory/Optional*
CCF-TACF Relationship ID	ri	M
Call ID (Assigned By CCAF)	ri	M
Bearer ID (CCF-BCF)	ri	M
User Information Rate(*)	ri	M
Information Transfer Capability(*)	ri	M
QOS	ri	O

FIG. 401

IE	*Relationship*	*Mandatory/Optional*
Base Station ID	rt	M
Power Control Info.	rt	M

FIG. 402

IE	*Relationship*	*Mandatory/Optional*
TACF-BCF Relationship ID	rjb	M
Bearer ID (CCF-BCF)	rjb	M
User Information Rate	rjb	M

FIG. 403

IE	*Relationship*	*Mandatory/Optional*
TACF-BCF Relationship ID	rjb	M
Bearer ID (BCF-BCF)	rjb	M

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FIG. 404

IE	*Relationship*	*Mandatory/Optional*
TACF-TACF Relationship ID	ri	M
Call ID (Assigned By CCAF)	ri	M
Bearer ID (BCF-BCF)	ri	M
Base Station ID	ri	M
Anchor TACF Instance ID	ri	M
Radio Frequency Info.	ri	M
Forward Link Info.	ri	M
Reverse Link Info.	ri	M
Power Control Info.	ri	M
User Information Rate	ri	M

FIG. 405

IE	*Relationship*	*Mandatory/Optional*
TACF-BCF Relationship ID	rjb	M
Bearer ID (BCF-BCF)	rjb	M
User Information Rate	rjb	M
Base Station ID	rjb	M

FIG. 406

IE	*Relationship*	*Mandatory/Optional*
TACF-BCF Relationship ID	rjb	M
Bearer ID (BCF-BCFr)	rjb	M

FIG. 407

IE	*Relationship*	*Mandatory/Optional*
TACF-BCFr Relationship ID	rja	M
Bearer ID (BCF-BCFR)	rja	M
Radio Frequency Info.	rja	M
Forward Link Info.	rja	M
Reverse Link Info.	rja	M
Power Control Info.	rja	M
User Information Rate	rja	M

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FIG. 408

IE	*Relationship*	*Mandatory/Optional*
TACF-BCFr Relationship ID	rja	M
Radio Frequency Info.	rja	M
Forward Link Info.	rja	M
Reverse Link Info.	rja	M

FIG. 409

IE	*Relationship*	*Mandatory/Optional*
TACF-TACF Relationship ID	r55	M
Radio Frequency Info.	r55	M
Forward Link Info.	r55	M
Reverse Link Info.	r55	M

FIG. 410

IE	*Relationship*	*Mandatory/Optional*
Call ID	rb	M
Radio Frequency Info.	rb	M
Forward Link Info.	rb	M
Reverse Link Info.	rb	M
User Information Rate	rb	M

FIG. 411

IE	*Relationship*	*Mandatory/Optional*
TACAF-BCAF Relationship ID	rn	M
Radio Frequency Info.	rn	M
Forward Link Info.	rn	M
Reverse Link Info.	rn	M
User Information Rate	rn	M

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FIG. 412

IE	*Relationship*	*Mandatory/Optional*
TACAF-BCAF Relationship ID	rn	M

FIG. 413

IE	*Relationship*	*Mandatory/Optional*
TACF-BCFr Relationship ID	rja	M

FIG. 414

IE	*Relationship*	*Mandatory/Optional*
TACF-TACF Relationship ID	r55	M

FIG. 415

IE	*Relationship*	*Mandatory/Optional*
CCF-TACF Relationship ID	ri	M

FIG. 416

IE	*Relationship*	*Mandatory/Optional*
CCF-TACF Relationship ID	rb	M
Call ID	rb	M
Cause	rb	M

FIG. 417

IE	*Relationship*	*Mandatory/Optional*
Call ID	rb	M
Cause	rb	M

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FIG. 418

IE	*Relationship*	*Mandatory/Optional*
Call ID	rb	M

FIG. 419

IE	*Relationship*	*Mandatory/Optional*
TACF-BCF Relationship ID	rjb	M

FIG. 420

IE	*Relationship*	*Mandatory/Optional*
TACF-BCF Relationship ID	rjb	M

FIG. 421

IE	*Relationship*	*Mandatory/Optional*
TACF-TACF Relationship ID	rb	M
Call ID	rb	M

FIG. 422

IE	*Relationship*	*Mandatory/Optional*
TACF-BCF Relationship ID	rjb	M

FIG. 423

IE	*Relationship*	*Mandatory/Optional*
TACF-BCF Relationship ID	rjb	M

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FIG. 424

IE	*Relationship*	*Mandatory/Optional*
TACF-BCFr Relationship ID	rja	M

FIG. 425

IE	*Relationship*	*Mandatory/Optional*
TACF-BCFr Relationship ID	rja	M

FIG. 426

IE	*Relationship*	*Mandatory/Optional*
TACF-TACF Relationship ID	rb	M

FIG. 427

IE	*Relationship*	*Mandatory/Optional*
CCF-TACF Relationship ID	ri	M

FIG. 428

IE	*Relationship*	*Mandatory/Optional*
TACAF-BCAF Relationship ID	rn	M

FIG. 429

IE	*Relationship*	*Mandatory/Optional*
TACAF-BCAF Relationship ID	rn	M

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FIG. 430

IE	*Relationship*	*Mandatory/Optional*
TACAF/MCF-SCMAF Relationship ID		M

FIG. 431

IE	*Relationship*	*Mandatory/Optional*
Tacf/Sacf-Scmf Relationship ID		M
Bearer ID		O

FIG. 432

IE	*Relationship*	*Mandatory/Optional*
TACF/SACF-SCMF Relationship ID		M

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FIG. 433

IE	*req. ind.*
TACF-TACF Relationship ID	M
Base Station ID	M
Anchor TACF Instance ID	M
Power Control Info.	M

FIG. 434

IE	*req. ind.*
TACF-BCFr Relationship ID	M
Base Station ID	M
Power Control Info.	M

FIG. 435

IE	*resp. conf.*
TACF-BCFr Relationship ID	M
Forward Link Info.	M

FIG. 436

IE	*req. ind.*
TACF-TACF Relationship ID	M
Forward Link Info.	M

FIG. 437

IE	*req. ind.*
Handover Branch ID	O *1
Call ID	M *1 *2
Forward Link Info.	M *1 *2

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FIG. 438

IE	*req. ind.*
TACAF-BCAF Relationship ID	M
Forward Link Info.	M

FIG. 439

IE	*resp. conf.*
TACAF-BCAF Relationship ID	M

FIG. 440

IE	*req. ind.*
BCF-TACF Relationship ID	M
Base Station ID	M
User Information Rate	M
Handover Mode	O*1

FIG. 441

IE	*resp. conf.*
TACF-BCF Relationship ID	M
Bearer ID (BCF-BCF)	M*

FIG. 442

IE	*req. ind.*
TACF-TACF Relationship ID	M
Bearer ID (BCF-BCF)	M*
Base Station ID	M
Anchor TACF Instance ID	M
Radio Frequency Info.	O
Forward Link Info.	M
Reverse Link Info.	M
Power Control Info.	M
User Information Rate	M

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FIG. 443

IE	*req. ind.*
TACF-BCF Relationship ID	M
Bearer ID (BCF-BCF)	M*
User Information Rate	M
Base Station ID	M

FIG. 444

IE	*resp. conf.*
TACF-BCF Relationship ID	M
Bearer ID (BCF-BCFR)	M*

FIG. 445

IE	*req. ind.*
TACF-BCFr Relationship ID	M
Bearer ID	M
Radio Frequency Info.	M
Forward Link Info.	M
Reverse Link Info.	M
Power Control Info.	M
User Information Rate	M

FIG. 446

IE	*resp. conf.*
TACF-BCFr Relationship ID	M
Radio Frequency Info.	M
Forward Link Info.	M
Reverse Link Info.	M

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FIG. 447

IE	*req. ind.*
TACF-TACF Relationship ID	M
Radio Frequency Info.	M
Forward Link Info.	M
Reverse Link Info.	M

FIG. 448

IE	*req. ind.*
Handover Branch ID	M *1
Call ID	M *1
Radio Frequency Info.	M *1 *2
Forward Link Info.	M *1 *2
Reverse Link Info.	M *1 *2

FIG. 449

IE	*req. ind.*
TACAF-BCAF Relationship ID	M
Radio Frequency Info.	M
Forward Link Info.	M
Reverse Link Info.	M

FIG. 450

IE	*resp. conf.*
TACAF-BCAF Relationship ID	M

FIG. 451

IE	*req. ind.*
TACF-TACF Relationship ID	M

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FIG. 452

IE	*req. ind.*
Cause	M
Handover Branch ID	M *1
Call ID	O *1 *2

FIG. 453

IE	*req. ind.*
Call ID	M

FIG. 454

IE	*Req. ind.*
TACF-TACF Relationship ID	M

FIG. 455

IE	*Req. ind.*
TACF-BCFr Relationship ID	M
Cause	M*

FIG. 456

IE	*resp. conf.*
TACF-BCFr Relationship ID	M

FIG. 457

IE	*req. ind.*
TACF-TACF Relationship ID	M

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FIG. 458

IE	*req. ind.*
Cause	M
Handover Branch ID	M *1
Call ID	O *1 *2

FIG. 459

IE	*req. ind.*
Call ID	M

FIG. 460

IE	*req. ind.*
TACAF-BCAF Relationship ID	M

FIG. 461

IE	*resp. conf.*
TACAF-BCAF Relationship ID	M

FIG. 462

IE	*req. ind.*
CCF-TACF Relationship ID	M
Released Bearer ID	M

FIG. 463

IE	*resp. conf.*
TACF-BCF Relationship ID	M

FIG. 464

IE	*req. ind.*
TACF-TACF Relationship ID	M

FIG. 465

IE	*req. ind.*
TACF-BCF Relationship ID	M

FIG. 466

IE	*resp. conf.*
TACF-BCF Relationship ID	M

FIG. 467

IE	*req. ind.*
TACF-BCFr Relationship ID	M
Cause	M*

FIG. 468

IE	*resp. conf.*
TACF-BCFr Relationship ID	M

FIG. 469

IE	*req. ind.*
TACF-TACF Relationship ID	M

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FIG. 470

IE	*req. ind.*
TACF-TACF Relationship ID	M
Bearer ID (BCF-BCF)	M*
Bearer Capability	M
Base Station ID	M
Anchor TACF Instance ID	M
Radio Frequency Info.	M
Power Control Info.	M

FIG. 471

IE	*req. ind.*	*resp. conf.*
TACF-BCFr Relationship ID	M	M
TACF-BCFr Relationship ID for Intra-BS RHO	M	M
Radio Frequency Info.	M	*1
Power Control Info.	M	*1

FIG. 472

IE	*req. ind.*
TACF-BCFr Relationship ID	M
Radio Frequency Info.	M
Forward Link Info.	M
Reverse Link Info.	M

FIG. 473

IE	*req. ind.*
TACF-TACF Relationship ID	M
Radio Frequency Info.	M
Forward Link Info.	M
Reverse Link Info.	M

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FIG. 474

IE	*req. ind.*
Handover Branch ID	O *1
Call ID	M *1 *2
Radio Frequency Info.	M *1 *2
Forward Link Info.	M *1 *2
Reverse Link Info.	M *1 *2

FIG. 475

IE	*req. ind.*
TACAF-BCAF Relationship ID	M
Radio Frequency Info.	M
Forward Link Info.	M
Reverse Link Info.	M

FIG. 476

IE	*resp. conf.*
TACAF-BCAF Relationship ID	M

FIG. 477

IE	*req. ind.*
TACAF-BCAF Relationship ID	M

FIG. 478

IE	*resp. conf.*
TACAF-BCAF Relationship ID	M

PRINT OF DRAWINGS
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FIG. 479

IE	*req. ind.*
TACF-TACF Relationship ID	M

FIG. 480

IE	*req. ind.*
BCF-TACF Relationship ID	M
Base Station ID	M
User Information Rate	M
Handover Mode	O*1

FIG. 481

IE	*resp. conf.*
TACF-BCF Relationship ID	M
Bearer ID (BCF-BCF)	M*

FIG. 482

IE	*req. ind.*
TACF-TACF Relationship ID	M
Bearer ID (BCF-BCF)	M*
Base Station ID	M
Anchor TACF Instance ID	M
Radio Frequency Info.	M
Forward Link Info.	M
Reverse Link Info.	M
Power Control Info.	M
User Information Rate	M

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FIG. 483

IE	*req. ind.*
TACF-BCF Relationship ID	M
Bearer ID (BCF-BCF)	M*
User Information Rate	M
Base Station ID	M

FIG. 484

IE	*resp. conf.*
TACF-BCF Relationship ID	M
Bearer ID (BCF-BCFr)	M*

FIG. 485

IE	*req. ind.*
TACF-BCFr Relationship ID	M
Bearer ID	M
Radio Frequency Info.	M
Forward Link Info.	M
Reverse Link Info.	M
Power Control Info.	M
User Information Rate	M

FIG. 486

IE	*req. ind.*
TACF-BCFr Relationship ID	M
Radio Frequency Info.	M
Forward Link Info.	M
Reverse Link Info.	M

PRINT OF DRAWINGS
AS ORIGINALLY FILED

FIG. 487

IE	*req. ind.*
TACF-TACF Relationship ID	M
Radio Frequency Info.	M
Forward Link Info.	M
Reverse Link Info.	M

FIG. 488

IE	*req. ind.*
Handover Branch ID	O *1
Access Link ID	M *1 *2
Radio Frequency Info.	M
Forward Link Info.	M *1 *2
Reverse Link Info.	M *1 *2
User Information Rate	O

FIG. 489

IE	*req. ind.*
TACAF-BCAF Relationship ID	M
Radio Frequency Info.	M
Forward Link Info.	M
Reverse Link Info.	M
Power Control Info.	M
User Information Rate	O

FIG. 490

IE	*resp. conf.*
TACAF-BCAF Relationship ID	M

FIG. 491

IE	*req. ind.*
TACAF-BCAF Relationship ID	M

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FIG. 492

IE	*resp. conf.*
TACAF-BCAF Relationship ID	M

FIG. 493

IE	*resp. conf.*
TACF-BCFr Relationship ID	M

FIG. 494

IE	*req. ind.*
TACF-TACF Relationship ID	M

FIG. 495

IE	*req. ind.*
TACF-BCF Relationship ID	M
Released Handover Link ID	M

FIG. 496

IE	*resp. conf.*
TACF-BCF Relationship ID	M

FIG. 497

IE	*req. ind.*
TACF-TACF Relationship ID	M

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FIG. 498

IE	*req. ind.*
TACF-BCF Relationship ID	M

FIG. 499

IE	*resp. conf.*
TACF-BCF Relationship ID	M

FIG. 500

IE	*req. ind.*
TACF-BCFr Relationship ID	M
Cause	M*

FIG. 501

IE	*resp. conf.*
TACF-BCFr Relationship ID	M

FIG. 502

IE	*req. ind.*
TACF-TACF Relationship ID	M

FIG. 503

IE	*req. ind.*
BCF-TACF Relationship ID	M
Base Station ID	M
Handover Mode	O* 1

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FIG. 504

IE	*resp. conf.*
TACF-BCF Relationship ID	M
Bearer ID (BCF-BCF)	M*

FIG. 505

IE	*req. ind.*
TACF-TACF Relationship ID	M
Bearer ID (BCF-BCF)	M*
Base Station ID	M
User Information Rate	M

FIG. 506

IE	*req. ind.*
TACF-BCF Relationship ID	M
Bearer ID (BCF-BCF)	M*
User Information Rate	M
Base Station ID	M

FIG. 507

IE	*resp. conf.*
TACF-BCF Relationship ID	M
Bearer ID (BCF-BCFr)	M*

FIG. 508

IE	*req. ind.*
TACF-BCFr Relationship ID	M
Bearer ID	M

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FIG. 509

IE	*req. ind.*
TACF-BCFr Relationship ID	M

FIG. 510

IE	*req. ind.*
TACF-TACF Relationship ID	M

FIG. 511

IE	*req. ind.*
Call ID	M

FIG. 512

IE	*req. ind.*
TACAF-BCAF Relationship ID	M

FIG. 513

IE	*resp. conf.*
TACAF-BCAF Relationship ID	M

FIG. 514

IE	*req. ind.*
TACAF-BCAF Relationship ID	M

FIG. 515

IE	*resp. conf.*
TACAF-BCAF Relationship ID	M

FIG. 516

IE	*req. ind.*
TACF-BCF Relationship ID	M
Released Bearer ID	M

FIG. 517

IE	*resp. conf.*
TACF-BCF Relationship ID	M

FIG. 518

IE	*req. ind.*
TACF-TACF Relationship ID	M

FIG. 519

IE	*req. ind.*
TACF-BCF Relationship ID	M

FIG. 520

IE	*resp. conf.*
TACF-BCF Relationship ID	M

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FIG. 521

IE	*req. ind.*
TACF-BCFr Relationship ID	M
Cause	M*

FIG. 522

IE	*resp. conf.*
TACF-BCFr Relationship ID	M

FIG. 523

IE	*req. ind.*
TACF-TACF Relationship ID	M

FIG. 524

IE	*req. ind.*
TACF-BCFr Relationship ID	M
Forward Link Info.	M

FIG. 525

IE	*req. ind.*
TACF-TACF Relationship ID	M
Forward Link Info.	M

FIG. 526

IE	*req. ind.*
Handover Branch ID	O *1
Call ID	M *1 *2
Forward Link Info.	M *1 *2

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FIG. 527

IE	*req. ind.*
TACAF-BCAF Relationship ID	M
Forward Link Info.	M

FIG. 528

IE	*resp. conf.*
TACAF-BCAF Relationship ID	M

FIG. 529

IE	*resp. conf.*
TACAF-BCAF Relationship ID	M

FIG. 530

IE	*req. ind.*
TACF-TACF Relationship ID	M

FIG. 531

IE	*req. ind.*
TACF-BCFr Relationship ID	M
Released Bearer ID	M

FIG. 532

IE	*req. ind.*
Power Control Info.	M

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FIG. 533

IE	*req. ind.*
TACF-TACF Relationship ID	M
Base Station ID	M
Power Control Info.	M

FIG. 534

IE	*req. ind.*
TACF-BCFr Relationship ID	M
Base Station ID	M
Power Control Info.	M

FIG. 535

IE	*req. ind.*	*resp. conf.*
Relationship ID	M	M
FPLMTS User ID	M	
LAI	M	
Result		M
Terminal Status	O	
TC Info.	O	

FIG. 536

IE	*req. ind.*	*resp. conf.*
Relationship ID	M	M
fPLMTS User ID	M	
Service Address Information	M	
LAI	M	
Result		M
AUTH R	O	
Confirmation Of Global RAND	O	
CHCNT	O	
Terminal Status	O	
TC Info.	O	

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FIG. 537

IE	*req. ind.*	*resp. conf.*
Relationship ID	M	M
FPLMTS User ID	M	
Result		M
AUTH R	O	
Confirmation Of Global RAND	O	
CHCNT	O	
Terminal Status	O	
TC Info.	O	

FIG. 538

IE	*req. ind.*	*resp. conf.*
Relationship ID	M	M
IMUI	M	
Challenge		M
Response		M
Ciphering Key		M
Result		M

FIG. 539

IE	*req. ind.*	*resp. conf.*
Relationship ID	M	M
Challenge	M	
Response		M

FIG. 540

IE	*req. ind.*	*resp. conf.*
Relationship ID	M	M
Challenge	M	
Response		M

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FIG. 541

IE	*req. ind.*	*resp. conf.*
Challenge	M	
Response		M
Ciphering Key		M

FIG. 542

IE	*req. ind.*	*resp. conf.*
Relationship ID	M	M
Ciphering Key	M	

FIG. 543

IE	*req. ind.*	*resp. conf.*
Relationship ID	M	M
Ciphering Key	M	

FIG. 544

IE	*req. ind.*	*resp. conf.*
Relationship ID	M	M
TMUI	M	
TMUI Assignment Source ID	M	
Result		M

FIG. 545

IE	*req. ind.*	*resp. conf.*
Relationship ID	M	M
IMUI	M	
TMUI		M
TMUI Assignment Source ID		M
Result		M

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FIG. 546

IE	*req. ind.*	*resp. conf.*
Relationship ID	M	M
IMUI	M	
TMUI	M	
TMUI Assignment Source ID	M	
Result		M

FIG. 547

IE	*req. ind.*	*resp. conf.*
Relationship ID	M	M
TMUI	M	
TMUI Assignment Source ID	M	
Result		M

FIG. 548

IE	*req. ind.*	*resp. conf.*
Relationship ID	M	M
TMUI	M	
TMUI Assignment Source ID	M	
Result		M

FIG. 549

IE	*req. ind.*	*resp. conf.*
Relationship ID	M	M
TMUI	M	
TMUI Assignment Source ID	M	
Result		M

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FIG. 550

IE	*req. ind.*	*resp. conf.*
Relationship ID	M	M
TMUI	M	
TMUI Assignment Source ID	M	
IMUI		M
Result		M

FIG. 551

IE	*req. ind.*	*resp. conf.*
Relationship ID	M	M
IMUI		M

FIG. 552

IE	*req. ind.*	*resp. conf.*
Relationship ID	M	M
IMUI		M

FIG. 553

IE	*req. ind.*	*resp. conf.*
Relationship ID	M	M
IMUI		M

FIG. 554

IE	*req. ind.*	*resp. conf.*
Relationship ID	M	M
IMUI		M

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FIG. 555

Coding	Meaning
000	Layer 3 of Radio Interface of W-CDMA
Others	Reserved

FIG. 556

Coding	Meaning
0	Continue
1	End

FIG. 557

Coding	Meaning
0	Standard Code
1	Inverted Code

FIG. 558

Coding	Meaning
00	Version 0
Others	Reserved

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FIG. 559

Function	PDU name	PDU type field	Description
Establishment	BGN	0001	Request Initialization
	BGAK	0010	Request Acknowledgement
	BGREJ	0111	Connection Reject
Release	END	0011	Disconnect Command
	ENDAK	0100	Disconnect Acknowledgement
Resynchronization	RS	0101	Resynchronization Command
	RSAK	0110	Resynchronization Acknowledgement
Recovery	ER	1001	Recovery Command
	ERAK	1111	Recovery Acknowledgement

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FIG. 560

Function	PDU name	PDU type field	Description
Assured Data Transfer	SD	1000	Sequenced Connection-mode Data
	POLL	1010	Transmitter State Information with Request for Receive State Information
	STAT	1011	Solicited Receiver State Information
	USTAT	1100	Unsolicited Receiver State Information
	SD-with-POLL	0000	Sequenced Connection-mode Data with State Information Request
Unacknowledged Data Transfer	UD	1101	Unnumbered User Data
Management Data Transfer	MD	1110	Unnumbered Management Data

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FIG. 561

Length of CRC	Channel Through Which Corresponding Frame Is Transmitted
16 bits	BCCH, RACH, FACH, SDCCH, ACCH, UPCH
8 bits	PCH

FIG. 562

Bit Coding	Meaning
00	Middle
01	End
10	Top
11	Sole

FIG. 563

Bit Coding	Meaning
0	BCCH 1
1	BCCH 2

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FIG. 564

Bit Coding	Uplink Interface Level
1010 0001	≧ 60.0 dB (μ)
1010 0000	59.8 to 60.0 dB (μ)
⋮	⋮
0000 0001	−20.0 to −19.5 dB
0000 0000	< −20.0 dB (μ)

FIG. 565

Usage	Identifier Value
SDCCH Setup Request Or Response Directly Before SDCCH Setup	0-63
Packet Transmission	64-65535

FIG. 566

Bit Coding	Meaning
0	User Information
1	Control Information

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FIG. 567

Bit Coding	Meaning	
	RACH, Upnlink UPCH	FACH, Downlink UPCH
0	To MCC	From MCC
1	To BTS	From BTS

FIG. 568

Bit Coding	Meaning
0	Normal Mode
1	Ack Mode

FIG. 569

Length of CRC	Channel Through Which Corresponding Frame Is Transmitted
16 bits	BCCH, RACH, FACH, SDCCH, UPCH
14 bits	ACCH

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FIG. 570

Message	Reference Section
Call Establishment Message	
ALERTING	2.5.2.4.2.1.1.1
CALL PROCEEDING	2.5.2.4.2.1.1.2
CONNECT	2.5.2.4.2.1.1.3
CONNECT ACKNOWLEDGE	2.5.2.4.2.1.1.4
PROGRESS	2.5.2.4.2.1.1.5
SETUP	2.5.2.4.2.1.1.6
SETUP ACKNOWLEDGE	
Call Clearing Message	
RELEASE	2.5.2.4.2.1.1.7
RELEASE COMPLETE	2.5.2.4.2.1.1.8
RESTART	
RESTART ACKNOWLEDGE	
Miscellaneous Message	
INFORMATION	2.5.2.4.2.1.1.9

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FIG. 571

Message Type : ALERTING
Significance : Global
Connection Discernment : ACCH
Direction Both

Information Element	Reference Section	Direction	Type	Length	
Protocol Discriminator	2.5.2.4.2.1.1	Both	M	F	1
Call Reference	2.5.2.4.2.1.1	Both	M	F	41
Message Type	2.5.2.4.2.1.2	Both	M	F	2
Message Length	4.4	Both	M	F	2
Connection Identifier	2.5.2.4.2.1.3.16	u → n	OF (Note 1)	V	4-9?
Narrow-Band Bearer Capability	2.5.2.4.2.1.4.2	Both	OF (Note 2)	V	4-14
Narrow-Band High Layer Compatibility	2.5.2.4.2.1.4.3	Both	O (Note 3)	V	4-7
Notification Indicator	2.5.2.4.2.1.3.23	Both	O (Note 4)	V	4-*

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FIG. 572

Message Type : ALERTING
Significance : Global
Connection Discernment : ACCH
Direction Both

Information Element	Reference Section	Direction	Type	Length	
Progress Indicator	2.5.2.4.2.1.4.5	Both	O (Note 5)	V	4-6
Broadband High Layer Information	2.5.2.4.2.1.3.8	Both	O (Note 6)	V	4-13
Mobile Bearer Capability		Both	O (Note 7)		
Mobile High Layer Information		Both	O (Note 8)		

Note 1 This should be studied further (this parameter will be used when the ATM will be applied on air interface in the future). If the alerting message is the first message among massages replying to a setup message and if the called user does not accept the connection identifier designated by the setup message, this connection identifier is mandatory in the alerting message from the called user to the network.

Note 2 This should be studied further (this parameter will be used when the ATM will be applied on the air interface in the future). The narrow-band bearer capability information element is included if the bearer capability selection procedure described in ITU-T Recommendation Q.931 is utilized.

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FIG. 573

Note 3 The narrow-band high layer compatibility information element is included if the high layer compatibility selection procedure defined in ITU-T Recommendation Q.931 is used.

Note 4 This notification identifier information element is included if the notification procedure is applied. A plurality of notification identifier information elements can be included in this message. The maximum length and the allowable number of the elements depend on the network.

Note 5 This parameter is included in this message in case of interworking event. This parameter is included in this message in case of connection which provides the in-band information and pattern if this message is transmitted from the called user to the network and if ITU-T Recommendation Q.931 is applied. At most, two progress indicator information elements can be included in this message.

Note 6 The broadband high layer information element is included if the high layer information selection procedure is used.

Note 7 This should be studied further (The mobile bearer capability information element will be used when bearer capability is selected).

Note 8 This should be studied further.

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FIG. 574

Message Type : CALLPROCEEDING
Significance : Local
Connection Discernment : SDCCH / ACCH
Direction : Both

Information Element	Reference Section	Direction	Type	Length	
Protocol Discriminator	2.5.2.4.2.1.1	Both	M	F	1
Call Reference	2.5.2.4.2.1.1	Both	M	F	41
Message Type	2.5.2.4.2.1.2	Both	M	F	2
Message Length	4.4	Both	M	F	2
Connection Identifier	2.5.2.4.2.1.3.16	Both	OF (Note 1)	V	4-9?
Narrow-Band Bearer Capability	2.5.2.4.2.1.4.2	Both	OF (Note 2)	V	4-14
Narrow-Band High Layer Compatibility	2.5.2.4.2.1.4.3	Both	O (Note 3)	V	4-7
Notification Indicator	2.5.2.4.2.1.3.23	Both	O (Note 4)	V	4-*

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FIG. 575

Message Type : CALLPROCEEDING
Significance : Local
Connection Discernment : SDCCH / ACCH
Direction : Both

Information Element	Reference Section	Direction	Type	Length	
Progress Indicator	2.5.2.4.2.1.4.5	Both	O (Note 5)	V	4-6
Broadband High Layer Information	2.5.2.4.2.1.3.8	Both	O (Note 6)	V	4-13
Mobile Bearer Capability		Both	O (Note 7)		
Mobile High Layer Information		Both	O (Note 8)		

Note 1 This should be studied further (this parameter will be used when the ATM will be applied on air interface in the future). If the call proceeding message is the first message among massages replying to a setup message, this connection identifier is mandatory in the call proceeding message from the network to the calling user. If the call proceeding message is the first message among massages replying to a setup message and if the called user does not accept the connection identifier designated by the setup message, this connection identifier is mandatory in the call proceeding message from the called user to the network.

Note 2 This should be studied further (this parameter will be used when the ATM will be applied on the air interface in the future). The narrow-band bearer capability information element is included if the bearer capability selection procedure described in ITU-T Recommendation Q.931 is utilized.

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FIG. 576

Note 3 The narrow-band high layer compatibility information element is included if the high layer compatibility selection procedure defined in ITU-T Recommendation Q.931 is used.

Note 4 This notification identifier information element is included if the notification procedure is applied. A plurality of notification identifier information elements can be included in this message. The maximum length and the allowable number of the elements depend on the network.

Note 5 This parameter is included in this message in case of interworking event. This parameter is included in this message in case of connection which provides the in-band information and pattern if this message is transmitted from the called user to the network and if ITU-T Recommendation Q.931 is applied. At most, two progress indicator information elements can be included in this message.

Note 6 The broadband high layer information element is included if the high layer information selection procedure is used.

Note 7 This should be studied further (The mobile bearer capability information element will be used when bearer capability is selected).

Note 8 This should be studied further.

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FIG. 577

Message Type : CONNECT
Significance : Global
Connection Discernment : ACCH
Direction : Both

Information Element	Reference Section	Direction	Type	Length	
Protocol Discriminator	2.5.2.4.2.1.1	Both	M	F	1
Call Reference	2.5.2.4.2.1.1	Both	M	F	41
Message Type	2.5.2.4.2.1.2	Both	M	F	2
Message Length	4.4	Both	M	F	2
AAL Parameters	2.5.2.4.2.1.3.5	Both	OF (Note 1)	V	4-21
Connection Identifier	2.5.2.4.2.1.3.16	u → n	OF (Note 2)	V	4-9?
End-to-End Transit Delay	2.5.2.4.2.1.3.17	Both	O (Note 3)	V	4-13
Narrow-Band Bearer Capability	2.5.2.4.2.1.4.2	Both	O (Note 4)	V	4-14

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FIG. 578

Message Type : CONNECT
Significance : Global
Connection Discernment : ACCH
Direction : Both

Information Element	Reference Section	Direction	Type	Length	
Narrow-Band High Layer Compatibility	2.5.2.4.2.1.4.3	Both	O (Note 5)	V	4-7
Narrow-Band Low Layer Compatibility	2.5.2.4.2.1.4.4	Both	O (Note 6)	V	4-20
Notification Indicator	2.5.2.4.2.1.3.23	Both	O (Note 7)	V	4-*
OAM Traffic Descriptor	2.5.2.4.2.1.3.24	Both	O (Note 8)	V	4-6
Progress Indicator	2.5.2.4.2.1.4.5	Both	O (Note 9)	V	4-8
Broadband High Layer Information	2.5.2.4.2.1.3.8	Both	O (Note 10)	V	4-13
Broadband Low Layer Information	2.5.2.4.2.1.3.9	Both	O (Note 11)	V	4-17
Mobile Bearer Capability		Both	O (Note 12)		
Mobile High Layer Information		Both	O (Note 13)		
Mobile Low Layer Information		Both	O (Note 14)		

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FIG. 579

Note 1 This should be studied further (this parameter will be used when the ATM will be applied on air interface in the future). If the called user wants to send the calling user the AAL parameter information and the AAL parameter information element is present in the setup message, this AAL parameter information element is included in the connect message from the called user to the network. If the connect message from the called user to the network includes the AAL parameter information element, the AAL parameter information element is also included in the connect message from the network to the calling user (see ITU-T Recommendation Q.2931).

Note 2 This should be studied further (this parameter will be used when the ATM will be applied on air interface in the future). If the connect message is the first message among massages replying to a setup message and if the called user does not accept the connection identifier designated by the setup message, this connection identifier is mandatory in the connect message from the called user to the network.

Note 3 If the called user has received the end-to-end transit delay information element in the setup message, this end-to-end transit delay information element is included in the connect message from the called user to the network. If the connect message from the called user to the network includes the end-to-end transit delay information element, the end-to-end transit delay information element is also included in the connect message from the network to the calling user as described in the bearer capability selection procedure defined in ITU-T Recommendation Q.931.

Note 4 This should be studied further (this parameter will be used when the ATM will be applied on the air interface in the future). The narrow-band bearer capability information element is included if the bearer capability selection procedure described in ITU-T Recommendation Q.931 is utilized.

Note 5 The narrow-band high layer compatibility information element is included if the high layer compatibility selection procedure defined in ITU-T Recommendation Q.931 is used.

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FIG. 580

Note 6 If the called user wants to send the calling user the narrow-band low layer compatibility information, this narrow-band low layer compatibility information element is included in the connect message from the called user to the network. If the connect message from the called user to the network includes the narrow-band low layer compatibility information element, the narrow-band low layer compatibility information element is also included in the connect message from the network to the calling user. For the narrow-band low layer information negotiation, this information element is included in the connect message as an option, but some network may not transfer this information element to the calling user (see ITU-T Recommendation Q.2931).

Note 7 This notification identifier information element is included if the notification procedure is applied. A plurality of notification identifier information elements can be included in this message. The maximum length and the allowable number of the elements depend on the network.

Note 8 This should be studied further (this parameter will be used when the ATM will be applied on air interface in the future). If the called user has received the OAM traffic descriptor information element in the setup message, this OAM traffic descriptor information element is included in the connect message from the called user to the network. If the connect message from the called user to the network includes the OAM traffic descriptor information element, the OAM traffic descriptor information element is also included in the connect message from the network to the calling user.

Note 9 This parameter is included in this message in case of interworking event or in case of connection which provides the in-band information and pattern. At most, two progress indicator information elements can be included in this message.

Note 10 The broadband high layer information element is included if the high layer information selection procedure is used.

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FIG. 581

Note 11 If the called user wants to send the calling user the broadband low layer compatibility information, this broadband low layer compatibility information element is included in the connect message from the called user to the network. If the connect message from the called user to the network includes the broadband low layer compatibility information element, the broadband low layer compatibility information element is also included in the connect message from the network to the calling user. For the broadband low layer information negotiation, this information element is included in the connect message as an option, but some network may not transfer this information element to the calling user.

Note 12 This should be studied further (The mobile bearer capability information element will be used when bearer capability is selected).

Note 13 This should be studied further.

Note 14 This should be studied further.

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FIG. 582

Message Type : CONNECT ACKOWLEDGE
Significance : Local
Connection Discernment : ACCH
Direction : Both

Information Element	Reference Section	Direction	Type	Length	
Protocol Discriminator	2.5.2.4.2.1.1	Both	M	F	1
Call Reference	2.5.2.4.2.1.1	Both	M	F	41
Message Type	2.5.2.4.2.1.2	Both	M	F	2
Message Length	4.4	Both	M	F	2
Notification Indicator	2.5.2.4.2.3.23	Both	O (Note)	V	4-*

Note This notification identifier information element is included if the notification procedure is applied. A plurality of notification identifier information elements can be included in this message. The maximum length and the allowable number of the elements depend on the network.

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FIG. 583

Message Type : PROGRESS
Significance : Global
Connection Discernment : SDCCH / ACCH
Direction : Both

Information Element	Reference Section	Direction	Type	Length	
Protocol Discriminator	2.5.2.4.2.1.1	Both	M	F	1
Call Reference	2.5.2.4.2.1.1	Both	M	F	41
Message Type	2.5.2.4.2.1.2	Both	M	F	2
Message Length	4.4	Both	M	F	2
Narrow-Band Bearer Capability	2.5.2.4.2.1.4.2	Both	OF (Note 1)	V	4-14
Narrow-Band High Layer Compatibility	2.5.2.4.2.1.4.3	Both	O (Note 2)	V	4-7
Notification Indicator	2.5.2.4.2.1.3.23	Both	O (Note 3)	V	4-*
Progress Indicator	2.5.2.4.2.1.4.5	Both	M (Note 4)	F	6

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FIG. 584

Message Type : PROGRESS
Significance : Global
Connection Discernment : SDCCH / ACCH
Direction : Both

Information Element	Reference Section	Direction	Type	Length	
Broadband High Layer Information	2.5.2.4.2.1.3.8	Both	O (Note 5)	V	4-13
Mobile Bearer Capability		Both	O (Note 6)		
Mobile High Layer Information		Both	O (Note 7)		

Note 1 This should be studied further (this parameter will be used when the ATM will be applied on the air interface in the future). The narrow-band bearer capability information element is included if the bearer capability selection procedure described in of ITU-T Recommendation Q.931 is utilized. The narrow-band bearer capability information element indicates the bearer service used for the call or connection.

Note 2 The narrow-band high layer compatibility information element is included if the high layer compatibility selection procedure defined in ITU-T Recommendation Q.931 is used. The narrow-band high layer compatibility information element indicates the high layer compatibility used for the call.

Note 3 This notification identifier information element is included if the notification procedure is applied. A plurality of notification identifier information elements can be included in this message. The maximum length and the allowable number of the elements depend on the network.

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FIG. 585

Note 4 At most, two progress indicator information elements can be included in this message.

Note 5 The broadband high layer information element is included if the high layer information selection procedure is used.

Note 6 This should be studied further (The mobile bearer capability information element will be used when bearer capability is selected).

Note 7 This should be studied further.

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FIG. 586

Message Type : SETUP
Significance : Global
Connection Discernment : SDCCH / ACCH
Direction : Both

Information Element	Reference Section	Direction	Type	Length	
Protocol Discriminator	2.5.2.4.2.1.1	Both	M	F	1
Call Reference	2.5.2.4.2.1.1	Both	M	F	41
Message Type	2.5.2.4.2.1.2	Both	M	F	2
Message Length	4.4	Both	M	F	2
AAL Parameters	2.5.2.4.2.1.3.5	Both	OF (Note 1)	V	4-21
ATM Traffic Descriptor	2.5.2.4.2.1.3.6	Both	OF (Note 2)	V	12-20
Broadband Bearer Capability	2.5.2.4.2.1.3.7	Both	OF (Note 3)	V	6-7
Called Party Number	2.5.2.4.2.1.3.11	Both	O (Note 4)	V	4-*

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FIG. 587

Message Type : SETUP
Significance : Global
Connection Discernment : SDCCH / ACCH
Direction : Both

Information Element	Reference Section	Direction	Type	Length	
Called Party Sub-Address	2.5.2.4.2.1.3.12	Both	O (Note 5)	V	4-25
Called Party Number	2.5.2.4.2.1.3.13	Both	O (Note 6)	V	4-*
Called Party Sub-Address	2.5.2.4.2.1.3.14	Both	O (Note 7)	V?	4-25
Connection Identifier	2.5.2.4.2.1.3.16	Both	O (Note 8)	V	4-9?
End-to-End Transit Delay	2.5.2.4.2.1.3.17	Both	O (Note 9)	V	4-10
Broadband Repeat Indicator	2.5.2.4.2.1.3.19	Both	O (Note 10)	V	4-5
Narrow-Band Bearer Capability	2.5.2.4.2.1.4.2	Both	OF (Note 11)	V	4-14
Narrow-Band High layer Compatibility	2.5.2.4.2.1.4.3	Both	O (Note 12)	V	4-7

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FIG. 588

Message Type : SETUP
Significance : Global
Connection Discernment : SDCCH / ACCH
Direction : Both

Information Element	Reference Section	Direction	Type	Length	
Broadband Repeat Indicator	2.5.2.4.2.1.3.19	Both	O (Note 13)	V	4-5
Narrow-Band Low layer Compatibility	2.5.2.4.2.1.4.4	Both	O (Note 14)	V	4-20
Notification Indicator	2.5.2.4.2.1.3.23	Both	O (Note 15)	V	4-*
OAM Traffic Descriptor	2.5.2.4.2.1.3.24	Both	O (Note 16)	V	4-6
Progress Indicator	2.5.2.4.2.1.4.5	Both	OF (Note 17)	V	4-6
QOS Parameter	2.5.2.4.2.1.3.18	Both	M	F	6
Broad Band Sending Complete	2.5.2.4.2.1.3.21	Both	O (Note 18)	V	4-5
Transit Network Selection	2.5.2.4.2.1.3.22	u → n	O (Note 19)	V	4-*

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FIG. 589

Message Type : SETUP
Significance : Global
Connection Discernment : SDCCH / ACCH
Direction : Both

Information Element	Reference Section	Direction	Type	Length	
Broadband High Layer Information	2.5.2.4.2.1.3.8	Both	O (Note 20)	V	4-13
Broadband Repeat Indicator	2.5.2.4.2.1.3.19	Both	O (Note 21)	V	4-5
Broadband Low Layer Information	5.2.4..2.1.3.9	Both	O (Note 22)	V	4-17
Mobile Bearer Capability		Both	M (Note 23)		
Mobile High Layer Information		Both	O (Note 24)		
Mobile Low Layer Information		Both	O (Note 25)		

Note 1 This should be studied further (this parameter will be used when the ATM will be applied on air interface in the future). If the calling user wants to send the called user the AAL parameter information, this AAL parameter information element is included in the setup message from the calling user to the network. If the setup message from the calling user to the network includes the AAL parameter information element, the AAL parameter information element is also included in the setup message from the network to the called user (see ITU-T Recommendation Q.2931).

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FIG. 590

Note 2 This should be studied further (this parameter will be used when the ATM will be applied on air interface in the future).

Note 3 This should be studied further (this parameter will be used when the ATM will be applied on air interface in the future).

Note 4 The called party number information element is included in the setup message from the calling user to the network in order to inform the network of the called party number information. The called party number information element is also included in the setup message from the network to the calling party.

Note 5 The called party sub-address information element is included in the setup message from the calling user to the network if the calling user wants to indicate the called party sub-address. If the setup message from the calling user to the network includes the called party sub-address information element, the called party sub-address information element is also included in the setup message from the network to the called user.

Note 6 The calling party number information element is included in the setup message from the calling user or from the network in order to identify the calling user.

Note 7 The calling party sub-address information element is included in the setup message from the calling user to the network if the calling user wants to indicate the calling party sub-address. If the setup message from the calling user to the network includes the calling party sub-address information element, the calling party sub-address information element is also included in the setup message from the network to the called user.

Note 8 This should be studied further (this parameter will be used when the ATM will be applied on air interface in the future). The connection identifier is included in the setup message from the calling user to the network if the calling user wants to indicate the virtual channel. The connection identifier is included in the setup message from the network to the called user if the network wants to indicate the virtual channel. When the connection identifier is not included in the setup message, it is interpreted that discretionary virtual channel can be accepted. When asymmetric signaling procedure is adopted, the connection identifier may be excluded.

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FIG. 591

Note 9 If the called user wants to indicate an end-to-end transit delay request and/or indicate an expected total transit delay with respect to user data transmission from the calling user to the network boundary, the this end-to-end transit delay information element is included in the setup message from the calling user to the network. If the setup message from the calling user to the network includes the end-to-end transit delay information element, the end-to-end transit delay information element is also included in the setup message from the network to the called user (see ITU-T Recommendation Q.2931).

Note 10 If the narrow-band bearer capability negotiation is used, the broadband repeat indicator information element is contained in the setup message and arranged directly before the first narrow-band bearer capability information element (see ITU-T Recommendation Q.2931).

Note 11 This should be studied further (this parameter will be used when the ATM will be applied on the air interface in the future). In N-ISDN service, this narrow-band bearer capability information element is mandatory (see section 6 of ITU-T Recommendation Q.2931). If the narrow-band bearer capability negotiation is used, a plurality of narrow-band bearer capability information elements may be included in the setup message (see ITU-T Recommendation Q.2931). If the narrow-band bearer capability negotiation is used, at most, three narrow-band bearer capability information elements may be included in the setup message in such a manner that the element of higher priority is arranged ahead: i.e., the element of first priority is arranged first. All networks do not necessarily support a plurality of narrow-band bearer capability information elements. Therefore, by negotiation at entry and the like, the network supporting a plurality of narrow-band bearer capability information elements enables the setup message to include three narrow-band bearer capability information elements (see ITU-T Recommendation Q.931). If the broadband repeat indicator information element is not arranged directly before the narrow-band bearer capability information elements, the narrow-band bearer capability information elements may be included in the setup message in such a manner that the element of lower priority is arranged ahead.

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FIG. 592

Note 12 This should be studied further (this parameter will be used when the ATM will be applied on the air interface in the future). If the calling user wants to send the called user the narrow-band high layer compatibility information, this narrow-band high layer compatibility information element is included in the setup message from the calling user to the network. If the setup message from the calling user to the network includes the narrow-band high layer compatibility information element, the narrow-band high layer compatibility information element is also included in the setup message from the network to the called user. All networks do not necessarily support a plurality of narrow-band high layer compatibility information elements. Therefore, by negotiation at entry and the like, the network supporting a plurality of narrow-band high layer compatibility information elements enables the setup message to include three narrow-band high layer compatibility information elements (see ITU-T Recommendation Q.931). If the broadband repeat indicator information element is not arranged directly before the narrow-band high layer compatibility information elements, the narrow-band high layer compatibility information elements may be included in the setup message in such a manner that the element of low priority is arranged ahead.

Note 13 If two or more narrow-band low layer compatibility information is included in the setup message for the low layer compatibility negotiation, this broadband repeat indicator is included in the setup message.

Note 14 This should be studied further (this parameter will be used when the ATM will be applied on the air interface in the future). If the calling user wants to send the called user the narrow-band low layer compatibility information, this narrow-band low layer compatibility information element is included in the setup message from the calling user to the network. If the setup message from the calling user to the network includes the narrow-band low layer compatibility information element, the narrow-band low layer compatibility information element is also included in the setup message from the network to the called user. If the narrow-band bearer capability negotiation is used, two, three, or four narrow-band bearer capability information elements may be included in the setup message in such a manner that the element of higher priority is arranged ahead: i.e., the element of first priority is arranged first (see ITU-T Recommendation Q.2931).

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FIG. 593

Note 15 This notification identifier information element is included if the notification procedure is applied. A plurality of notification identifier information elements can be included in this message. The maximum length and the allowable number of the elements depend on the network.

Note 16 This should be studied further (this parameter will be used when the ATM will be applied on air interface in the future). To indicate additional information related to OAM F5 end-to-end information flow, this OAM traffic descriptor information element is included in the setup message from the calling user to the network. However, the setup message without this OAM traffic descriptor information element does not mean that the OAM F5 end-to-end information flow is not used for this call. Instead, this setup message indicates that there is an end-to-end B-ISDN connection.

Note 17 This parameter is included in this message in case of interworking event or in case of connection which provides the in-band information and pattern. At most, two progress indicator information elements can be included in this message.

Note 18 This broadband sending complete parameter information element is mandatorily included in this message from the calling user if en-block sending procedure is applied. Interruption of the broadband sending complete parameter information element by the network is option. This broadband sending complete parameter information element is mandatorily included in this message from the network if en-block sending procedure is applied. If the broadband sending complete parameter information element is not included, it is unnecessary to apply the error correction procedure for lack of mandatory information element.

Note 19 This transit network selection information element is included in the setup message from the calling user in order to select transit network. At most, four transit network selection information elements may be included in the setup message.

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FIG. 594

Note 20 If the calling user wants to send the called user the broadband high layer information, this broadband high layer information element is included in the setup message from the calling user to the network. If the setup message from the calling user to the network includes the broadband high layer information element, the broadband high layer information element is also included in the setup message from the network to the called user.

Note 21 If two or more broadband low layer information elements are included for the low layer information selection procedure, this broadband repeat indicator information element is included in the setup message from the calling user to the network. This broadband repeat indicator information element is arranged directly before the first broadband low layer information element.

Note 22 If the calling user wants to send the called user the broadband low layer information, this broadband low layer information element is included in the setup message from the calling user to the network. If the setup message from the calling user to the network includes the broadband low layer information element, the broadband low layer information element is also included in the setup message from the network to the called user. If the broadband low layer information negotiation is used, two or three broadband low layer information elements may be included in the setup message in such a manner that the element of higher priority is arranged ahead: i.e., the element of first priority is arranged first

Note 23 This should be studied further (The mobile bearer capability information element will be used when bearer capability is selected).

Note 24 This should be studied further.

Note 25 This should be studied further.

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FIG. 595

Message Type : RELEASE
Significance : Global
Connection Discernment : SDCCH / ACCH
Direction : Both

Information Element	Reference Section	Direction	Type	Length	
Protocol Discriminator	2.5.2.4.2.1.1	Both	M	F	1
Call Reference	2.5.2.4.2.1.1	Both	M	F	41
Message Type	2.5.2.4.2.1.2	Both	M	F	2
Message Length	4.4	Both	M	F	2
Cause	2.5.2.4.2.1.3.15	Both	M (Note 1)	V	6-34
Notification Indicator	2.5.2.4.2.1.3.23	Both	O (Note 2)	V	4-*
Progress Indicator	2.5.2.4.2.1.4.5	Both	O (Note 3)	V	4-6

Note 1 At most, two cause information elements can be included in this message.

Note 2 This notification identifier information element is included if the notification procedure is applied. A plurality of notification identifier information elements can be included in this message. The maximum length and the allowable number of the elements depend on the network.

Note 3 If the in-band tone is provided, this progress indicator information element is included in the release massage from the network. Either of users, however, enables the release message to include the progress indicator information element and can provide the in-band tone. In such cases, the network shall ignore this information element and will not transfer in-band tone. At most, two progress indicator information elements can be included in the release message.

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FIG. 596

Message Type : RELEASE COMPLETE
Significance : Local (Note 1)
Connection Discernment : SDCCH / ACCH
Direction : Both

Information Element	Reference Section	Direction	Type	Length	
Protocol Discriminator	2.5.2.4.2.1.1	Both	M	F	1
Call Reference	2.5.2.4.2.1.1	Both	M	F	41
Message Type	2.5.2.4.2.1.2	Both	M	F	2
Message Length	4.4	Both	M	F	2
Cause	2.5.2.4.2.1.3.15	Both	O (Note 2)	V	4-34

Note 1 This message has the local significance. However, if this message is the first release complete message, it has the global significance.

Note 2 If this message is the first release complete message, this cause information element is mandatory. In addition, if the release complete message is sent as a result of the error correction condition, this cause information element is included in the release complete message. At most, two information elements may be included in the release

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FIG. 597

Message Type : INFORMATION
Significance : Local (Note 1)
Connection Discernment : SDCCH / ACCH
Direction : Both

Information Element	Reference Section	Direction	Type	Length	
Protocol Discriminator	2.5.2.4.2.1.1	Both	M	F	1
Call Reference	2.5.2.4.2.1.1	Both	M	F	41
Message Type	2.5.2.4.2.1.2	Both	M	F	2
Message Length	4.4	Both	M	F	2
Broadband Sending Complete	2.5.2.4.2.1.3.21	Both	O (Note 2)	V	4-5
Called Party Number	2.5.2.4.2.1.3.11	Both	O (Note 3)	V	4-*

complete message.

Note 1 This message has the local significance, however, information with global significance can be transferred by this message.

Note 2 This broadband sending complete information element is optional. If the user or network wants to indicate the completion of the overlap sending to the network or user, this broadband sending complete information element is included in the information message.

Note 3 In overlap sending procedure, this called party number information element is included in the information message

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FIG. 598

Message	Reference Section
MOBILITY FACILITY	2.5.2.4.2.2.2

FIG. 599

Massage Type: MOBILITY FACILITY
Significance: Local
Direction: Both

IE	Reference Section	Type	Length FV (oct)		Note
Protocol Discriminator		M	F	1	
Message Type	2.5.2.4.2.2.1	M	F	2	
Facility	2.5.2.4.2.2.3	M	F		

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FIG. 600

Protocol Discriminator: MM-T
Channel: SDCCH
Direction: MS (MCF) to Network (SACF)

IE	Reference Section	Type	Length FV (oct)		Note
Protocol Discriminator		M	F	1	
Message Type		M	F	2	Mobility Facility
Information Element Identifier		M	F	1	Facility
Length of Facility Contents		M	F	1	
Protocol Profile		M	F	1	Remote Operation Protocol
Component Type Tag		M	F	1	Invoke
Length of Component		M	F	1	
Component Identifier Tag		M	F	1	Invoke Identifier
Length of Component Identifier		M	F	1	
Invoke Identifier		M	F	1	
Operation Value Tag		M	F	1	Object Identifier
Operation Value		M	F	1	Terminal Location Registration
Tag		M	F	1	SET (Omissible)
Length of Components		M	F	1	(Omissible)
Tag		M	F	1	
Length		M	F	1	

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FIG. 601

Protocol Discriminator: MM-T
Channel: SDCCH
Direction: MS (MCF) to Network (SACF)

IE	Reference Section	Type	Length FV (oct)		Note
Length		M	F	1	
TMUI		M	F	4	Primary User (Not for the 1st Reg.)
Tag		M	F	1	
Length		M	F	1	
TMUI Assignment Source ID		M	V		Primary User (Not for the 1st Reg.)
Tag		M	F	1	
Length		M	F	1	
IMUI		M	V		Primary User (for the 1st Reg.)
Tag		O	F	1	
Length		O	F	1	
TC Info		O	F		

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FIG. 602

1. RESPONSE MESSAGE INDICATING "RETURN RESULT" WHEN TERMINAL LOCATION HAS BEEN NORMALLY REGISTERED

Protocol Discriminator: MM-T
Channel: SDCCH
Direction: Network (SACF) to MS (MCF)

IE	Reference Section	Type	Length FV (oct)		Note
Protocol Discriminator		M	F	1	
Message Type		M	F	2	Mobility Facility
Information Element Identifier		M	F	1	Facility
Length of Facility Contents		M	F	1	
Protocol Profile		M	F	1	Remote Operation Protocol
Component Type Tag		M	F	1	Return Result
Length of Component		M	F	1	
Component Identifier Tag		M	F	1	Invoke Identifier
Length of Component Identifier		M	F	1	
Invoke Identifier		M	F	1	
Operation Value Tag		M	F	1	
Operation Value		M	F	1	Terminal Location Registration

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FIG. 603

2. RESPONSE MESSAGE INDICATING "RETURN ERROR" WHEN ABNORMALITY, E.G., APPLICATION ERROR HAS OCCURRED

Protocol Discriminator: MM-T
Channel: SDCCH
Direction: Network (SACF) to MS (MCF)

IE	Reference Section	Type	Length FV (oct)		Note
Protocol Discriminator		M	F	1	
Message Type		M	F	2	Mobility Facility
Information Element Identifier		M	F	1	Facility
Length of Facility Contents		M	F	1	
Protocol Profile		M	F	1	Remote Operation Protocol
Component Type Tag		M	F	1	Return Error
Length of Component		M	F	1	
Component Identifier Tag		M	F	1	Invoke Identifier
Length of Component Identifier		M	F	1	
Invoke Identifier		M	F	1	
Tag		M	F	1	
Length of Error Value		M	F	1	
Error Value		M	F	1	

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FIG. 604

3. RESPONSE MESSAGE INDICATING "REJECT" WHEN AN ABNORMALITY, E.G., DISCREPANCY OF IE HAS OCCURRED

Protocol Discriminator: MM-T
Channel: SDCCH
Direction: Network (SACF) to MS (MCF)

IE	Reference Section	Type	Length FV (oct)		Note
Protocol Discriminator		M	F	1	
Message Type		M	F	2	Mobility Facility
Information Element Identifier		M	F	1	Facility
Length of Facility Contents		M	F	1	
Protocol Profile		M	F	1	Remote Operation Protocol
Component Type Tag		M	F	1	Reject
Length of Component		M	F	1	
Component Identifier Tag		M	F	1	Invoke Identifier
Length of Component Identifier		M	F	1	
Invoke Identifier		M	F	1	
Tag		M	F	1	
Length of Error Value		M	F	1	
Problem		M	F	1	

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FIG. 605

Protocol Discriminator: MM-T
Channel: SDCCH
Direction: Network (SACF/TACF) to MS (MCF/TACAF)

IE	Reference Section	Type	Length FV (oct)		Note
Protocol Discriminator		M	F	1	
Message Type		M	F	2	Mobility Facility
Information Element Identifier		M	F	1	Facility
Length of Facility Contents		M	F	1	
Protocol Profile		M	F	1	Remote Operation Protocol
Component Type Tag		M	F	1	Invoke
Length of Component		M	F	1	
Component Identifier Tag		M	F	1	Invoke Identifier
Length of Component Identifier		M	F	1	
Invoke Identifier		M	F	1	
Operation Value Tag		M	F	1	Object Identifier
Operation Value		M	F	1	TUMI Assignment
Tag		M	F	1	
Length		M	F	1	
TMUI		M	F	4	

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FIG. 606

1. RESPONSE MESSAGE INDICATING "RETURN RESULT" WHEN TMUI HAS BEEN NORMALLY ASSIGNED

Protocol Discriminator: MM-T
Channel: SDCCH
Direction: MS (MCF/TACAF) to Network (SACF/TACF)

IE	Reference Section	Type	Length FV (oct)		Note
Protocol Discriminator		M	F	1	
Message Type		M	F	2	Mobility Facility
Information Element Identifier		M	F	1	Facility
Length of Facility Contents		M	F	1	
Protocol Profile		M	F	1	Remote Operation Protocol
Component Type Tag		M	F	1	Return Result
Length of Component		M	F	1	
Component Identifier Tag		M	F	1	Invoke Identifier
Length of Component Identifier		M	F	1	
Invoke Identifier		M	F	1	
Operation Value Tag		M	F	1	
Operation Value		M	F	1	TUMI Assignment

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FIG. 607

2. RESPONSE MESSAGE INDICATING "RETURN ERROR" WHEN ABNORMALITY, E.G., APPLICATION ERROR HAS OCCURRED

Protocol Discriminator: MM-T
Channel: SDCCH
Direction: MS (MCF/TACAF) to Network (SACF/TACF)

IE	Reference Section	Type	Length FV (oct)		Note
Protocol Discriminator		M	F	1	
Message Type		M	F	2	Mobility Facility
Information Element Identifier		M	F	1	Facility
Length of Facility Contents		M	F	1	
Protocol Profile		M	F	1	Remote Operation Protocol
Component Type Tag		M	F	1	Return Error
Length of Component		M	F	1	
Component Identifier Tag		M	F	1	Invoke Identifier
Length of Component Identifier		M	F	1	
Invoke Identifier		M	F	1	
Tag		M	F	1	
Length of Error Value		M	F	1	
Error Value		M	F	1	

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FIG. 608

3. RESPONSE MESSAGE INDICATING "REJECT" WHEN AN ABNORMALITY, E.G., DISCREPANCY OF IE HAS OCCURRED

Protocol Discriminator: MM-T
Channel: SDCCH
Direction: MS (MCF/TACAF) to Network (SACF/TACF)

IE	Reference Section	Type	Length FV (oct)		Note
Protocol Discriminator		M	F	1	
Message Type		M	F	2	Mobility Facility
Information Element Identifier		M	F	1	Facility
Length of Facility Contents		M	F	1	
Protocol Profile		M	F	1	Remote Operation Protocol
Component Type Tag		M	F	1	Reject
Length of Component		M	F	1	
Component Identifier Tag		M	F	1	Invoke Identifier
Length of Component Identifier		M	F	1	
Invoke Identifier		M	F	1	
Tag		M	F	1	
Length of Problem Value		M	F	1	
Problem		M	F	1	

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FIG. 609

Protocol Discriminator: MM-T
Channel: SDCCH/ACCH
Direction: Network (SACF/TACF) to MS (MCF/TACAF)

IE	Reference Section	Type	Length FV (oct)		Note
Protocol Discriminator		M	F	1	
Message Type		M	F	2	Mobility Facility
Information Element Identifier		M	F	1	Facility
Length of Facility Contents		M	F	1	
Protocol Profile		M	F	1	Remote Operation Protocol
Component Type Tag		M	F	1	Invoke
Length of Component		M	F	1	
Component Identifier Tag		M	F	1	Invoke Identifier
Length of Component Identifier		M	F	1	
Invoke Identifier		M	F	1	
Operation Value Tag		M	F	1	Object identifier
Operation Value		M	F	1	Authentication challenge
Tag		M	F	1	SET
Length of Components		M	F	1	
Tag		M	F	4	

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FIG. 610

Protocol Discriminator: MM-T
Channel: SDCCH
Direction: Network (SACF/TACF) to MS (MCF/TACAF)

IE	Reference Section	Type	Length FV (oct)		Note
Length		M	F	1	
Execution Authentication Type		M	F	1	
Tag		M	F	1	
Length		M	F	1	
Authentication Random Pattern		M	V		

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FIG. 611

1. RESPONSE MESSAGE INDICATING "RETURN RESULT" WHEN AUTHENTICATION HAS BEEN NORMALLY REQUESTED
Protocol Discriminator: MM-T
Channel: SDCCH/ACCH
Direction: MS (MCF/TACAF) to Network (SACF/TACF)

IE	Reference Section	Type	Length FV (oct)		Note
Protocol Discriminator		M	F	1	
Message Type		M	F	2	Mobility Facility
Information Element Identifier		M	F	1	Facility
Length of Facility Contents		M	F	1	
Protocol Profile		M	F	1	Remote Operation Protocol
Component Type Tag		M	F	1	Return Result
Length of Component		M	F	1	
Component Identifier Tag		M	F	1	Invoke Identifier
Length of Component Identifier		M	F	1	
Invoke Identifier		M	F	1	
Operation Value Tag		M	F	1	
Operation Value		M	F	1	Authentication Challenge
Tag		M	F	1	
Length		M	F	1	
Authentication Ciphering Pattern		M	V		

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FIG. 612

2. RESPONSE MESSAGE INDICATING "RETURN ERROR" WHEN ABNORMALITY, E.G., APPLICATION ERROR HAS OCCURRED

Protocol Discriminator: MM-T
Channel: SDCCH/ACCH
Direction: MS (MCF/TACAF) to Network (SACF/TACF)

IE	Reference Section	Type	Length FV (oct)		Note
Protocol Discriminator		M	F	1	
Message Type		M	F	2	Mobility Facility
Information Element Identifier		M	F	1	Facility
Length of Facility Contents		M	F	1	
Protocol Profile		M	F	1	Remote Operation Protocol
Component Type Tag		M	F	1	Return Error
Length of Component		M	F	1	
Component Identifier Tag		M	F	1	Invoke Identifier
Length of Component Identifier		M	F	1	
Invoke Identifier		M	F	1	
Tag		M	F	1	
Length of Error Value		M	F	1	
Error Value		M	F	1	

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FIG. 613

3. RESPONSE MESSAGE INDICATING "REJECT" WHEN AN ABNORMALITY, E.G., DISCREPANCY OF IE HAS OCCURRED

Protocol Discriminator: MM-T
Channel: SDCCH/ACCH
Direction: MS (MCF/TACAF) to Network (SACF/TACF)

IE	Reference Section	Type	Length FV (oct)		Note
Protocol Discriminator		M	F	1	
Message Type		M	F	2	Mobility Facility
Information Element Identifier		M	F	1	Facility
Length of Facility Contents		M	F	1	
Protocol Profile		M	F	1	Remote Operation Protocol
Component Type Tag		M	F	1	Reject
Length of Component		M	F	1	
Component Identifier Tag		M	F	1	Invoke Identifier
Length of Component Identifier		M	F	1	
Invoke Identifier		M	F	1	
Tag		M	F	1	
Length of Problem Value		M	F	1	
Problem		M	F	1	

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FIG. 614

Protocol Discriminator: MM-T
Channel: SDCCH/ACCH
Direction: Network (SACF/TACF) to MS (MCF/TACAF)

IE	Reference Section	Type	Length FV (oct)		Note
Protocol Discriminator		M	F	1	
Message Type		M	F	2	Mobility Facility
Information Element Identifier		M	F	1	Facility
Length of Facility Contents		M	F	1	
Protocol Profile		M	F	1	Remote Operation Protocol
Component Type Tag		M	F	1	Invoke
Length of Component		M	F	1	
Component Identifier Tag		M	F	1	Invoke Identifier
Length of Component Identifier		M	F	1	
Invoke Identifier		M	F	1	
Operation Value Tag		M	F	1	
Operation Value		M	F	1	Start Ciphering
Tag		M	F	1	
Length		M	F	1	
Execution Ciphering pattern		M	F	4	

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FIG. 615

1. RESPONSE MESSAGE INDICATING "RETURN RESULT" WHEN CIPHERING ONSET HAS BEEN NORMALLY NOTIFIED

Protocol Discriminator: MM-T
Channel: SDCCH/ACCH
Direction: MS (MCF/TACAF) to Network (SACF/TACF)

IE	Reference Section	Type	Length FV (oct)		Note
Protocol Discriminator		M	F	1	
Message Type		M	F	2	Mobility Facility
Information Element Identifier		M	F	1	Facility
Length of Facility Contents		M	F	1	
Protocol Profile		M	F	1	Remote Operation Protocol
Component Type Tag		M	F	1	Return Result
Length of Component		M	F	1	
Component Identifier Tag		M	F	1	Invoke Identifier
Length of Component Identifier		M	F	1	
Invoke Identifier		M	F	1	
Operation Value Tag		M	F	1	
Operation Value		M	F	1	Start Ciphering

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FIG. 616

2. RESPONSE MESSAGE INDICATING "RETURN ERROR" WHEN ABNORMALITY, E.G., APPLICATION ERROR HAS OCCURRED

Protocol Discriminator: MM-T
Channel: SDCCH/ACCH
Direction: MS (MCF/TACAF) to Network (SACF/TACF)

IE	Reference Section	Type	Length FV (oct)		Note
Protocol Discriminator		M	F	1	
Message Type		M	F	2	Mobility Facility
Information Element Identifier		M	F	1	Facility
Length of Facility Contents		M	F	1	
Protocol Profile		M	F	1	Remote Operation Protocol
Component Type Tag		M	F	1	Return Error
Length of Component		M	F	1	
Component Identifier Tag		M	F	1	Invoke Identifier
Length of Component Identifier		M	F	1	
Invoke Identifier		M	F	1	
Tag		M	F	1	
Length of Error Value		M	F	1	
Error Value		M	F	1	

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FIG. 617

3. RESPONSE MESSAGE INDICATING "REJECT" WHEN AN ABNORMALITY, E.G., DISCREPANCY OF IE HAS OCCURRED

Protocol Discriminator: MM-T
Channel: SDCCH/ACCH
Direction: MS (MCF/TACAF) to Network (SACF/TACF)

IE	Reference Section	Type	Length FV (oct)		Note
Protocol Discriminator		M	F	1	
Message Type		M	F	2	Mobility Facility
Information Element Identifier		M	F	1	Facility
Length of Facility Contents		M	F	1	
Protocol Profile		M	F	1	Remote Operation Protocol
Component Type Tag		M	F	1	Reject
Length of Component		M	F	1	
Component Identifier Tag		M	F	1	Invoke Identifier
Length of Component Identifier		M	F	1	
Invoke Identifier		M	F	1	
Tag		M	F	1	
Length of Problem Value		M	F	1	
Problem		M	F	1	

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FIG. 618

Protocol Discriminator: MM-T
Channel: SDCCH
Direction: Network (SACF/TACF) to MS (MCF/TACAF)

IE	Reference Section	Type	Length FV (oct)		Note
Protocol Discriminator		M	F	1	
Message Type		M	F	2	Mobility Facility
Information Element Identifier		M	F	1	Facility
Length of Facility Contents		M	F	1	
Protocol Profile		M	F	1	Remote Operation Protocol
Component Type Tag		M	F	1	Invoke
Length of Component		M	F	1	
Component Identifier Tag		M	F	1	Invoke Identifier
Length of Component Identifier		M	F	1	
Invoke Identifier		M	F	1	
Operation Value Tag		M	F	1	
Operation Value		M	F	1	IMUI Retrieval

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FIG. 619

1. RESPONSE MESSAGE INDICATING "RETURN RESULT" WHEN IMUI HAS BEEN NORMALLY INQUIRED
Protocol Discriminator: MM-T
Channel: SDCCH
Direction: MS(MCF/TACAF) to Network (SACF/TACF)

IE	Reference Section	Type	Length FV (oct)		Note
Protocol Discriminator		M	F	1	
Message Type		M	F	2	Mobility Facility
Information Element Identifier		M	F	1	Facility
Length of Facility Contents		M	F	1	
Protocol Profile		M	F	1	Remote Operation Protocol
Component Type Tag		M	F	1	Return Result
Length of Component		M	F	1	
Component Identifier Tag		M	F	1	Invoke Identifier
Length of Component Identifier		M	F	1	
Invoke Identifier		M	F	1	
Operation Value Tag		M	F	1	
Operation Value		M	F	1	IMUI Retrieval
Tag		M	F	1	
Length		M	F	1	
IMUI		M	V		BCD

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FIG. 620

2. RESPONSE MESSAGE INDICATING "RETURN ERROR" WHEN ABNORMALITY, E.G., APPLICATION ERROR HAS OCCURRED

Protocol Discriminator: MM-T
Channel: SDCCH
Direction: MS (MCF/TACAF) to Network (SACF/TACF)

IE	Reference Section	Type	Length FV (oct)		Note
Protocol Discriminator		M	F	1	
Message Type		M	F	2	Mobility Facility
Information Element Identifier		M	F	1	Facility
Length of Facility Contents		M	F	1	
Protocol Profile		M	F	1	Remote Operation Protocol
Component Type Tag		M	F	1	Return Error
Length of Component		M	F	1	
Component Identifier Tag		M	F	1	Invoke Identifier
Length of Component Identifier		M	F	1	
Invoke Identifier		M	F	1	
Tag		M	F	1	
Length of Error Value		M	F	1	
Error Value		M	F	1	

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FIG. 621

3. RESPONSE MESSAGE INDICATING "REJECT" WHEN AN ABNORMALITY, E.G., DISCREPANCY OF IE HAS OCCURRED

Protocol Discriminator: MM-T
Channel: SDCCH
Direction: MS (MCF/TACAF) to Network (SACF/TACF)

IE	Reference Section	Type	Length FV (oct)		Note
Protocol Discriminator		M	F	1	
Message Type		M	F	2	Mobility Facility
Information Element Identifier		M	F	1	Facility
Length of Facility Contents		M	F	1	
Protocol Profile		M	F	1	Remote Operation Protocol
Component Type Tag		M	F	1	Reject
Length of Component		M	F	1	
Component Identifier Tag		M	F	1	Invoke Identifier
Length of Component Identifier		M	F	1	
Invoke Identifier		M	F	1	
Tag		M	F	1	
Length of Problem Value		M	F	1	
Problem		M	F	1	

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FIG. 622

Message Type	Reference Section
RADIO BEARER SETUP	2.5.2.4.2.3.4.1
RADIO BEARER RELEASE	2.5.2.4.2.3.4.2
RADIO BEARER RELEASE COMPLETE	2.5.2.4.2.3.4.3
HANDOVER COMMAND	2.5.2.4.2.3.4.4
HANDOVER RESPONSE	2.5.2.4.2.3.4.5

FIG. 623

	When Bearer Is Setup	When Bearer Is Released	When Bearer Is Maintained
MASSAGE	RADIO BEARER SETUP	RADIO BEARER RELEASE RADIO BEARER RELEASE COMPLETE	HANDOVER COMMAND HANDOVER RESPONSE

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FIG. 624

Protocol Discriminator: RBC
Channel: SDCCH/ACCH
Direction: Network to MS

	Information Element	Reference Section	Type	Length FV	(oct)	Note
	Protocol Discriminator		M	F	1	
	Message Type	2.5.2.4.3.3.1	M	F	1	Operation Indicator is Excluded
	Message-Specific-Parameter	2.5.2.4.3.3.3	M	V	3	
Fundamental Information Field	Radio Bearer Setup Info.	2.5.2.4.3.3.8	O	V	≦16	
	DHO Branch Add. Info.	2.5.2.4.3.3.9	O	V	≦12	
	ACCH Repl. Info.	2.5.2.4.3.3.11	O	F	4	
	Branch Repl. Info.	2.5.2.4.3.3.12	O	V	≦13	
	DHO Branch Del. Info	2.5.2.4.3.3.10	O	F	6	
	Code Repl. Info.	2.5.2.4.3.3.14	O	V	≦12	This should be Studied Further
Extensional Information Field	Extensional Information		O			Details will be Decided at Future Performance Extension

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FIG. 625

Protocol Discriminator: RBC
Channel: ACCH
Direction: MS to Network and Network to MS

	Information Element	Reference Section	Type	Length FV (oct)		Note
	Protocol Discriminator		M	F	1	
	Message Type	2.5.2.4.3.3.1	M	F	1	Operation Indicator is Excluded
Fundamental Information Field	Message-Specific-Paramete	2.5.2.4.3.3.4	M	F	2	
Fundamental Information Field	ACCH Repl. Info.	2.5.2.4.3.3.11	O	F	4	
Extensional Information Field	Extensional Information		O			Details will be Decided at Future Performance Extension

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FIG. 626

Protocol Discriminator: RBC
Channel: ACCH
Direction: MS to Network and Network to MS

	Information Element	Reference Section	Type	Length FV (oct)		Note
Fundamental Information Field	Protocol Discriminator		M	F	1	
	Message Type	2.5.2.4.3.3.1	M	F	1	Operation Indicator is Excluded
	Message-Specific-Paramete	2.5.2.4.3.3.5	M	F	1	
	ACCH Repl. Info.	2.5.2.4.3.3.11	O	F	4	
Extensional Information Field	Extensional Information		O			Details will be Decided at Future Performance Extension

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FIG. 627

Protocol Discriminator: RBC
Channel: ACCH
Direction: Network to MS

	Information Element	Reference Section	Type	Length FV (oct)		Note
	Protocol Discriminator		M	F	1	
	Message Type	2.5.2.4.3.3.1	M	F	1	Operation Indicator is Excluded
	Message-Specific-Parameter	2.5.2.4.3.3.6	M	F	1	
Fundamental Information Field	User Rate Repl. Info.	2.5.2.4.3.3.13	O	V	≦17	
	Branch Repl. Info.	2.5.2.4.3.3.12	O	V	≦13	
	DHO Branch Add. Info.	2.5.2.4.3.3.9	O	V	≦12	This can be Multiplied in the Fund. Info. Filed
	DHO Branch Del. Info	2.5.2.4.3.3.10	O	F	6	This can be Multiplied in the Fund. Info. Filed
Extensional Information Field	Code Repl. Info.	2.5.2.4.3.3.14	O	V	≦12	This should be Studied Further
	Extensional Information		O			Details will be Decided at Future Performance Extension

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FIG. 628

Protocol Discriminator: RBC
Channel: ACCH
Direction: MS to Network

Information Element	Reference Section	Type	Length FV (oct)		Note
Protocol Discriminator		M	F	1	
Message Type	2.5.2.4.3.3.1	M	F	1	Operation Indicator is Excluded
Message-Specific-Parameter	2.5.2.4.3.3.7	M	F	1	
Extensional Information		O			Details will be Decided at Future Performance Extension

Extensional Information Field

FIG. 629

Message Type	Reference Section
RADIO RESOURCE FACILITY	2.5.2.4.2.4.2.1

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FIG. 630

Protocol Discriminator: RRC
Channel: SDCCH/ACCH
Direction: MS to Network

Information Element	Reference Section	Type	Length FV (oct)	Note
Protocol Discriminator		M	F 1	
Message Type	2.5.2.4.3.4.1	M	F 1	Operation Indicator is Excluded
Facility	2.5.2.4.3.4.2	M	F 1	

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FIG. 631

Message	Coding	Reference Section	Note
TERMINAL ASSOCIATION SETUP		2.5.2.4.2.5...1	
TERMINAL ASSOCIATION CONNECT		2.5.2.4.2.5...2	
PAGING RESPONSE		2.5.2.4.2.5...3	
PAGE AUTHORIZED		2.5.2.4.2.5...4	
TERMINAL ASSOCIATION RELEASE		2.5.2.4.2.5...5	
TERMINAL ASSOCIATION RELEASE COMPLETE		2.5.2.4.2.5...6	

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FIG. 632

Message	Information Flow
TERMINAL ASSOCIATION SETUP	TA SETUP req. ind.
TERMINAL ASSOCIATION CONNECT	TA SETUP resp. conf.
PAGING RESPONSE	Paging resp. conf.
PAGE AUTHORIZED	Page Authorized req. ind.
TERMINAL ASSOCIATION RELEASE	TA Release req. ind..
TERMINAL ASSOCIATION RELEASE COMPLETE	TA Release resp. conf.

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FIG. 633

Protocol Discriminator: TAC
Channel: SDCCH
Direction: TACAF of MS to TACF of Network

Information Element	Reference Section	Type	Length FV (oct)		Note
Protocol Discriminator	2.5.2.4.3.5..2	M	F	1	
Message Type	2.5.2.4.3.5..3	M	F	1	
TERMINAL ASSOCIATION SETUP Message Specific Parameter	2.5.2.4.3.5..4 (1)	M	V		

FIG. 634

Protocol Discriminator: TAC
Channel: SDCCH
Direction: TACF of Network to TACAF of MS

Information Element	Reference Section	Type	Length FV (oct)		Note
Protocol Discriminator	2.5.2.4.3.5..2	M	F	1	
Message Type	2.5.2.4.3.5..3	M	F	1	

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FIG. 635

Protocol Discriminator: TAC
Channel: SDCCH
Direction: TACAF of MS to TACF of Network

Information Element	Reference Section	Type	Length FV (oct)		Note
Protocol Discriminator	2.5.2.4.3.5..2	M	F	1	
Message Type	2.5.2.4.3.5..3	M	F	1	
PAGING RESPONSE Message Specific Parameter	2.5.2.4.3.5..4 (2)	M	V		

FIG. 636

Protocol Discriminator: TAC
Channel: SDCCH/ACCH
Direction: TACF of Network to TACAF of MS and
TACAF of MS to TACF of Network

Information Element	Reference Section	Type	Length FV (oct)		Note
Protocol Discriminator	2.5.2.4.3.5..2	M	F	1	
Message Type	2.5.2.4.3.5..3	M	F	1	
TERMINAL ASSOCIATION RELEASE Message Specific Parameter	2.5.2.4.3.5..4 (3)	M	V	1	

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FIG. 637

Protocol Discriminator: TAC
Channel: SDCCH/ACCH
Direction: TACF of Network to TACAF of MS and
TACAF of MS to TACF of Network

Information Element	Reference Section	Type	Length FV (oct)		Note
Protocol Discriminator	2.5.2.4.3.5..2	M	F	1	
Message Type	2.5.2.4.3.5..3	M	F	1	

FIG. 638

Protocol Discriminator: TAC
Channel: SDCCH/ACCH
Direction: TACF of Network to TACAF of MS

Information Element	Reference Section	Type	Length FV (oct)		Note
Protocol Discriminator	2.5.2.4.3.5..2	M	F	1	
Message Type	2.5.2.4.3.5..3	M	F	1	

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FIG. 639

Protocol Discriminator:
Channel: RACH
Direction: SCMAF of MS to SCMF of BTS

Information Element	Reference Section	Type	Length FV (oct)	Note
Message Type	2.5.2.4.3.6.1	M	F \| 1	
Perch Ch. Recpt. SIR	2.5.2.4.3.6.3	M	F \| 1	

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FIG. 640

Protocol Discriminator:
Channel: FACH
Direction: SCMF of BTS to SCMAF of MS

Information Element	Reference Section	Type	Length FV (oct)		Note
Message Type	2.5.2.4.3.6.1	M	F	1	
Short Code No.	2.5.2.4.3.6.4	M	F	2	for Uplink SDCCH
Short Code No.	2.5.2.4.3.6.4	M	F	2	for downlink SDCCH
Frame Offsets	2.5.2.4.3.6.5	M	F	1/2	for SDCCH
Slot Offsets	2.5.2.4.3.6.6	M	F	1/2	for SDCCH

FIG. 641

Protocol Discriminator:
Channel: FACH
Direction: SCMF of BTS to SCMAF of MS

Information Element	Reference Section	Type	Length FV (oct)		Note
Message Type	2.5.2.4.3.6.1	M	F	1	

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FIG. 642

Protocol Discriminator:
Channel: BCCH
Direction: BCFr of BTS to BCAF of MS

Information Element	Reference Section	Type	Length FV (oct)	Note
Message Type	2.5.2.4.3.6.1	M	F 1	
Length	2.5.2.4.3.6.2	M	F 1	
Network No.	2.5.2.4.3.6.7	M	F 1	
Network Ver.	2.5.2.4.3.6.8	M	F 1	
MS-Common-Parameter Ver.	2.5.2.4.3.6.9	M	F 1	
BTS No.	2.5.2.4.3.6.10	M	F 2	
Sector No.	2.5.2.4.3.6.11	M	F 1	
N (No. of Areas the MS has been Registered)	2.5.2.4.3.6.12	M	F 1	
Area No.	2.5.2.4.3.6.13	M	F 1	First
:				
Area No.	2.5.2.4.3.6.13	M	F 1	N-th
Loc. Reg. Timer Count	2.5.2.4.3.6.14	M	F 1	
Corrected Pwr. for BS Recpt.	2.5.2.4.3.6.15	M	F 1	
MS Uplink Long Code No.	2.5.2.4.3.6.16	M	F	
M (No. of LCs on PCH for Deciding the Visited Zone)	2.5.2.4.3.6.17	M	F 1	
PCH LC No.	2.5.2.4.3.6.18	M	F	First
:				
PCH LC No.	2.5.2.4.3.6.18	M	F	M-th
K (No. of Freq. Bands the BS Uses)	2.5.2.4.3.6.19	M	F 1	
Freq. Band	2.5.2.4.3.6.20	M	F 1	First
:				
Freq. Band	2.5.2.4.3.6.20	M	F 1	K-th
Restricted Info.	2.5.2.4.3.6.21	M	F	
Control Ch. Structure Info. (Including Info. for Packet)	2.5.2.4.3.6.22	M	F	
Extensional Information	2.5.2.4.3.6.28			

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FIG. 643

Protocol Discriminator:
Channel: BCCH
Direction: BCFr of BTS to BCAF of MS

Information Element	Reference Section	Type	Length FV (oct)		Note
Message Type	2.5.2.4.3.6.1	M	F	1	
Length	2.5.2.4.3.6.2	M	F	1	
Call Acceptance Info.	2.5.2.4.3.6.22	M	F		

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FIG. 644

Protocol Discriminator: TAC
Channel: PCH
Direction: BCFr of BTS to BCAF of MS

Information Element	Reference Section	Type	Length FV (oct)		Note
Message Type	2.5.2.4.3.6.1	M	F	3	
Bcst. Info. Recpt. Duration Length	2.5.2.4.3.6.24	M	F	3	
No. of Called MSs	2.5.2.4.3.6.25	M	F	2	
Paged MS ID	2.5.2.4.3.6.26	M	V*		First Called MS
Paging ID	2.5.2.4.3.6.27	M	F	6	First Called MS
Paged MS ID	2.5.2.4.3.6.26	M	V*		Second Called MS
Paging ID	2.5.2.4.3.6.27	M	F	6	Second Called MS

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FIG. 645

Bits 8 7 6 5 4 3 2 1	
0 0 0 0 0 0 0 0 through 0 0 0 0 0 1 1 1	Assigned to clause 4 of ITU-T Recommendation Q.931 and thus not Available for the Message Protocol Discriminator
0 0 0 0 1 0 0 0	User-Network Call Control Messages prescribed in Q.931 (or I.451)
0 0 0 0 1 0 0 1	User-Network Call/Connection Control Messages prescribed in Q.2931
0 0 0 1 0 0 0 0 through 0 0 1 1 1 1 1 1	Reserved for Other Network Layer or Layer 3 Protocols, including Recommendation X. 25 (see Note)
0 1 0 1 0 0 0 0 through 0 1 0 0 1 1 1 1	National Use

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CONTINUED FROM FIG. 645

0 1 0 1 0 0 0 0 through 0 1 1 1 1 1 1 1	Reserved for Other Network Layer or Layer 3 Protocols, including Recommendation X. 25 (see Note)
1 0 0 0 0 0 0 0	FPLMTS CC(MM-P) Message
1 0 0 0 0 0 0 1	FPLMTS TAC Message
1 0 0 0 0 0 1 0	FPLMTS MM-TM Message
1 0 0 0 0 0 1 1	FPLMTS RBC Message
1 0 0 0 0 1 0 0	FPLMTS RRC Message
1 0 0 0 0 1 0 1	FPLMTS OAM Message
1 0 0 0 0 1 1 0	FPLMTS BC Message
1 0 0 0 0 1 1 1	FPLMTS RCM Message
1 0 0 0 1 0 0 0	FPLMTS BSM Message
1 0 0 0 1 0 0 1 through 1 1 1 1 1 1 1 0	Reserved for Other Network Layer or Layer 3 Protocols, including Recommendation X. 25 (see Note)
All other values are reserved.	

Note
These values are reserved for distinguishing the protocol discriminator from the first octet of a packet, including a general format discriminator, according to ITU-T Recommendation X.25.

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FIG. 646

Message Type Identifier
(Including Message Compatibility Instruction Indicator)

Message Type Field (Octet 1)
Bit Pattern

8	7	6	5	4	3	2	1	
0	0	0	0	0	0	0	0	Escape Code for a Nationally Specific Message Type (See Note 1)
0	0	0	·	·	·	·	·	Call Establishment Messages
			0	0	0	0	1	ALERTING
			0	0	0	1	0	CALL PROCEEDING
			0	0	1	1	1	CONNECT
			0	1	1	1	1	CONNECT ACKNOWLEDGE
			0	0	0	1	1	PROGRESS
			0	0	1	0	1	SETUP
			0	1	1	0	1	SETUP ACKNOWLEDGE
0	1	0	·	·	·	·	·	Call Clearing Messages
			0	1	1	0	1	RELEASE
			1	1	0	1	0	RELEASE COMPLETE
			0	0	1	1	0	RESTART
			0	1	1	1	0	RESTART ACKNOWLEDGE

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CONTINUED FROM FIG. 646

0	1	1	·	·	·	·	·	Miscellaneous Messages
			1	1	0	1	1	INFORMATION
			0	1	1	1	0	NOTIFY
			1	1	1	0	1	STATUS
			1	0	1	0	1	STATUS ENQUIRY
1	1	1	1	1	1	1	1	Reserved for extension for the case wherein all other values have been used (see note 2)

Note 1 If this is used, the message type (excluding message compatibility instruction indicator) is indicated in octet 5 of the message in accordance with the rules of both nations and the content is indicated in the next octet.

Note 2 If this is used, the message type (excluding message compatibility instruction indicator) is indicated in octet 5 of the message in accordance with the rules of both nations and the content is indicated in the next octet.

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FIG. 647

Flag (Octet 2)	
Bit Pattern	
5	
0	Message instruction field is not significant, so that regular error handling procedures are applied.
1	Explicit instructions will follow and supersede the regular error handling procedures.

Message Action Indicator (Octet 2)		
Bit Pattern		
2	1	
0	0	Clear call
0	1	Discard and ignore
1	0	Discard and report status
1	1	Reserved

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FIG. 648

Format of Information Element Identifier (Octet 1)

Bit Pattern

8	7	6	5	4	3	2	1	
0	1	1	1	0	0	0	0	Called Party Number
0	1	1	1	0	0	0	1	Called Party Sub-address
0	1	1	1	1	0	0	0	Transit Network Selection
0	1	1	1	1	0	0	1	Restart Indicator
0	1	1	1	1	1	0	0	Narrow-band Low Layer Compatibility
0	1	1	1	1	1	0	1	Narrow-band High Layer Compatibility
0	1	1	0	0	0	0	0	Broadband Locking Shift
0	1	1	0	0	0	0	1	Broadband Non-Locking Shift
0	1	1	0	0	0	1	0	Broadband Sending Complete
0	1	1	0	0	0	1	1	Broadband Repeat Indicator
0	1	1	0	1	1	0	0	Calling Party Number
0	1	1	0	1	1	0	1	Calling Party Sub-address
0	1	0	1	1	0	0	0	ATM Adaptation Layer Parameters

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CONTINUED FROM FIG. 648

0	1	0	1	1	0	0	1	ATM Traffic Descriptor
0	1	0	1	1	0	1	0	Connection Identifier
0	1	0	1	1	0	1	1	OAM Traffic Descriptor
0	1	0	1	1	1	0	0	Quality Of Service Parameter
0	1	0	1	1	1	1	0	Broadband Bearer Capability
0	1	0	1	1	1	1	1	Broadband Low Layer Information (B-LLI)
0	1	0	1	1	1	0	1	Broadband High Layer Information (B-HLI)
0	1	0	0	0	0	1	0	End-to-end Transit Delay
0	0	1	0	0	1	1	1	Notification Indicator
0	0	0	1	0	1	0	0	Call State
0	0	0	1	1	1	1	0	Progress Indicator
0	0	0	0	0	1	0	0	Narrow-band Bearer Capability
0	0	0	0	1	0	0	0	Cause
0	1	0	1	0	0	0	0	Mobile Bearer Capability
0	1	0	1	0	0	0	1	Mobile High Layer Information
0	1	0	1	0	0	1	0	Mobile Low Layer Information

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FIG. 649

Coding Standard (Octet 2)	
Bit Pattern	
7 6	
0 0	ITU-T standardized coding as described blow
0 1	ISO/IEC Standard (Note 1)
1 0	National Standard (Note 1)
1 1	Standard defined for the public or private network presented to the network side of the interface (Note 1)

Flag (Octet 2)	
Bit Pattern	
5	
0	IE instruction field is not significant, so that regular error handling procedures are applied.
1	Explicit instructions will follow and supersede the regular error handling procedures.

Reserved (Octet 2)	
Bit Pattern	
4	Reserved for a possible use to indicate a "pass along" request.
0	Other usages

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CONTINUED FROM FIG. 649

IE Action Indicator (Octet 2)	
Bit Pattern	
3 2 1	
0 0 0	Clear call
0 0 1	Discard the information element and proceed
0 1 0	Discard the information element, proceed, and report status
1 0 1	Discard and ignore the message
1 1 0	Discard the message and report status
Others	Reserved

Note 1 These coding manners should be applied only when necessary information elements can not be coded in accordance with TTC standard.

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FIG. 650

New Code Set Identification (Octet 5)	
Bit Pattern	
3 2 1	
0 0 0	Not Applicable
0 0 1 to 0 1 1	Reserved
1 0 0	Code Set 4: Information elements for ISO/IEC use
1 0 1	Code Set 5: Information elements for national use
1 1 0	Code Set 6: Information elements specialized for the local network (public or private network).
1 1 1	Code Set 7: Information elements specialized for usersll

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FIG. 651

Temporary Code Set Identification (Octet 5)	
Bit Pattern	
3 2 1	
0 0 0	Code Set 0 (Initial Busy Code Set): Information elements according to ITU-T Recom. Q.293
0 0 1 to 0 1 1	Reserved
1 0 0	Code Set 4: Information elements for ISO/IEC use
1 0 1	Code Set 5: Information elements for national use.
1 1 0	Code Set 6: Information elements specialized for the local network (public or private network).
1 1 1	Code Set 7: Information elements specialized for users

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FIG. 652

AAL Type Identification (Octet 5)

Bit Pattern

8	7	6	5	4	3	2	1	
0	0	0	0	0	0	0	0	AAL for voice (Notes 1 and 2)
0	0	0	0	0	0	0	1	AAL type 1
0	0	0	0	0	0	1	0	AAL type 2 (Note 2)
0	0	0	0	0	0	1	1	AAL type 3/4
0	0	0	0	0	1	0	1	AAL type 5
0	0	0	1	0	0	0	0	User defined ALL
			Others					Reserved

Note 1 Default AAL for voice is AAL designated in ITU-T Recom. I.363 for voice-band signal transport at 64 kbps (ITU-T Recoms. G.711 and G.722).

Note 2 If the AAL type identification indicates AAL type 2 or AAL for voice, further contents as in Figures 108 through 110 do not follow.

Subtype Field (Octet 6.1 for AAL type 1)

Bit Pattern

8	7	6	5	4	3	2	1	
0	0	0	0	0	0	0	0	Null
0	0	0	0	0	0	0	1	Voice-band signal transport at 64 kbps (see ITU-T Recoms. G.711, G.722, and I.363, but this should be studied further)
0	0	0	0	0	0	1	0	Circuit transport (see 2.5.1.1 of ITU-T Recom. I.363)
0	0	0	0	0	1	0	0	High-quality audio signal transport (see ITU-T Recom. I.363, but this should be studied further)
0	0	0	0	0	1	0	1	Video signal transport (see ITU-T Recom. I.363, but this should be studied further)
				Others				Reserved

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CONTINUED FROM FIG. 652

CBR Rate Field (Octet 7.1 for AAL type 1)

Bit Pattern								
8	7	6	5	4	3	2	1	
0	0	0	0	0	0	0	1	64 kbit/s
0	0	0	0	0	1	0	0	1544 kbit/s
0	0	0	0	0	1	0	1	6312 kbit/s
0	0	0	0	0	1	1	0	32064 kbit/s
0	0	0	0	0	1	1	1	44736 kbit/s
0	0	0	0	1	0	0	0	97728 kbit/s
0	0	0	1	0	0	0	0	2048 kbit/s
0	0	0	1	0	0	0	1	8448 kbit/s
0	0	0	1	0	0	1	0	34368 kbit/s
0	0	0	1	0	0	1	1	139264 kbit/s
0	1	0	0	0	0	0	0	n × 64 kbit/s
0	1	0	0	0	0	0	1	n × 8 kbit/s
			Others					Reserved

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FIG. 653

Multiplier Field (Octets 8.1 and 8.2 for AAL type 1 and n × 64 kbps indication in octet 7.1)

Integer representation of values between 2 and 2^{16}-1 for n × 64 kbit/s
Integer representation of values between 1 and 7 for n × 8 kbit/s

Source Clock Frequency Recovery Method Field (Octet 9.1 for AAL type 1)

Bit Pattern 8	7	6	5	4	3	2	1	
0	0	0	0	0	0	0	0	Null (synchronous circuit transport)
0	0	0	0	0	0	0	1	Synchronous Residual Time Stamp (SRTS) method (asynchronous circuit transport, see 2.5.2.2.1 of ITU-T Recom. I.363)
0	0	0	0	0	0	1	0	Adaptive clock method (see 2.5.2.2.1 of ITU-T Recom. I.363)
			Others					Reserved

Error Correction Method Field (Octet 10.1 for AAL type 1)

Bit Pattern 8	7	6	5	4	3	2	1	
0	0	0	0	0	0	0	0	Null (No error correction is provided)
0	0	0	0	0	0	0	1	Forward error correction for loss sensitive signal transport (see ITU-T Recom. I.363)
0	0	0	0	0	0	1	0	Forward error correction for delay sensitive signal transport (see ITU-T Recom. I.363, but this should be studied further)
				Others				Reserved

Structured Data Transfer Block Size Field (Octets 11.1 and 11.2 for AAL type 1)
16 bit integer representation of values between 1 and 65536 (2^{16} - 1). This parameter represents the block size of SDT CBR service.

Note 3 If an ATM connection supporting the AAL 1 SDT (structured data transfer) service is provided, the SDT protocol can distinguish between the case wherein the SDT block size is one and the cases wherein the SDT block size is from 2 to 2^{16} - 1. See ITU-T Recom. I.363.

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CONTINUED FROM FIG. 653

Partially Filled Cells Method Field (Octet 12.1 for AAL type 1)

Bit Pattern

8	7	6	5	4	3	2	1	
0	0	0	0	0	0	0	1	Integer representation of the number of leading octets of SAR-PDU payload in use (values between 1 and 47) (see ITU-T Recom. I.363, but this should be studied further)
to								
0	0	1	0	1	1	1	1	

Forward Maximum CPCS-SDU Size Field (Octets 6.1 and 6.2 for AAL types 3/4 and 5)
16 bit integer representation of the values between 0 and 650535 (2^{16} - 1).
This parameter is applied to the forward direction (from called user to calling user).

Backward Maximum CPCS-SDU Size Field (Octets 7.1 and 7.2 for AAL types 3/4 and 5)
16 bit integer representation of the values between 0 and 650535 (2^{16} - 1).
This parameter is applied to the backward direction (from called user to calling user).

MID Range Field (Octets 8.1, 8.2, 8.3, and 8.4 for AAL type 3/4)
Integer representation of the lowest MID value for octets 8.1 and 8.2 and of the highest MID value for octets 8.3 and 8.4 of the MID range. This takes a value between zero and 1023.

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FIG. 654

SSCS Type (Octet 9.1 for AAL type 3/4 and octet 8.1 for AAL type 5)

Bit Pattern

8	7	6	5	4	3	2	1	
0	0	0	0	0	0	0	0	Null
0	0	0	0	0	0	0	1	Data SSCS based SSCOP (assured operation)
0	0	0	0	0	0	1	0	Data SSCS based SSCOP (non-assured operation)
0	0	0	0	0	1	0	0	Frame relay SSCS
			Others					Reserved

User Defined AAL Information Field (Octets 5.1 to 5.4 for user defined AAL)

Bit Pattern

8 7 6 5 4 3 2 1

The contents of this field are user-specifieed.

Note 4 If the AAL parameter subfield is not included, the following defaults are allocated.

Subtype	No default (mandatory for AAL type 1)
CBR Rate	No default (mandatory for AAL type 1)
Multiplier	No default (mandatory for CBR rate of n × 64 or n × 8 kbps)
Souce Clock Frequency Recovery Method	Default indicates no provision
Error Correction Method	Default indicates no provision
Structured Data Transfer Block Size	Default indicates no use of SDT
Partially Filled Cells Method	Default indicates 47 octets
Forward Maximum CPCS-SDU Size	Default indicates 65 or 535 octets
Backward Maximum CPCS-SDU Size	Default indicates 65 or 535 octets
MID Range	Default indicates zero to zero (non multiplexing by MID field)
SSCS Type	Default indicates no provision

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FIG. 655

Forward/backward Peak Cell Rate (octets i. 1-3. 3, where i may selected from 5, 6, 7 and 8).

A code expressing in pure 3 octets integer representation, the number of cells per second with bit 8 of the first octet being the most significant bit and bit 1 of the third octet being the least significant bit.

The "forward" direction is defined as that from the calling user to the called user.

The "backward" direction is the reverse, i.e., from the called user to the calling user.

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FIG. 656

Bearer Class (Octet 5)

Bit Pattern

5	4	3	2	1	
0	0	0	0	1	BCOB-A
0	0	0	1	1	BCOB-C (Note 1)
0	0	0	0	1	BCOB-X
Others					Reserved

Traffic Type (Octet 5a)

Bit Pattern

5	4	3	
0	0	0	No indication
0	0	1	Constant bit rate
0	1	0	Variable bit rate
Others			Reserved

Timing Requirements (Octet 5a)

Bit Pattern

2	1	
0	0	No indication
0	1	End-to-end timing required
1	0	End-to-end timing not required
1	1	Reserved

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CONTINUED FROM FIG. 656

Susceptibility to Clipping (Octet 6)

Bit Pattern

7	6	
0	0	Not susceptible to clipping
0	1	Susceptible to clipping
Others		Reserved

User-Plane Connection Configuration (Octet 6)

Bit Pattern

2	1	
0	0	Point-to-point
0	1	Point-to-multipoint (Note 2)
Others		Reserved

Notes

1. If bearer class BCOB-C is indicated, the network may allocate the resources only on the basis of the peak cell rate as if bearer class BCOB-A is requested.
2. Attention should be paid for that the point-to-multipoint connection procedure is not provided for resource 1. However, by supporting the code point, user can be a point-to-point connection segment within the point-to-multipoint connection. For instance, the user implementing resource 1 procedure receives a "point-to-multipoint" setup message by a user plane connection structure, this should be interpreted as coded to "point-to-point." This permits that the user can be a "leaf" of the point-to-multipoint connection.

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FIG. 657

High Layer Information Type (Octet 5)

Bit Pattern

7	6	5	4	3	2	1	
0	0	0	0	0	0	0	ISO/IEC (Note 1)
0	0	0	0	0	0	1	User-specific (Note 2)
0	0	0	0	0	1	1	Vendor-specific application identifier (Note 3)
0	0	0	0	1	0	0	Reference to B-ISDN teleservice recommendation of ITU-T SG 1 (Note 4)
			Others				Reserved

Notes

1. This code point is reserved for use of ISO/IEC standards.
2. If this bit pattern is used for the high layer information type parameter, the coding manner of octets 6 to 13 should be specified by the user. The use of code point needs the agreement between end users.

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CONTINUED FROM FIG. 657

3. If this bit pattern is used for the high layer information type parameter, octets 6 to 12 should be coded as in the following.
 Octets 6 to 8 cooperate to include a globally given OUI (organizationally unique identifier defined in section 5.1 of IEEE Standard 802, 1990). Octets 0 and followers of the OUI are set to octets 6 and followers of the broadband high layer information element. The LSB of the OUI is set to bit 8 of the B-HLI element. The MSB of the OUI is set to bit 1 of the B-HLI element.
 Bit 7 of octet 6 should be always set to zero.
 Octets 9 to 12 cooperate to include an application identifier given by a vendor which can be identified by the OUI.
 Octet 13 is not used in the high layer information type.
4. The code point to identify the recommendation or standard is indicated in octet 6. Particular code point will be added when the corresponding recommendation or standard is completed.

High Layer Information (Octets 6 to 13)
The content of these octets depends on the high layer information type.

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FIG. 658

User Information Layer 1 Protocol (Octet 5)

ALL bits pattern are reserved.

User Information Layer 2 Protocol (Octet 6)

Bit Pattern

5	4	3	2	1	
0	0	0	0	1	Basic Mode in ISO 1745
0	0	0	1	0	ITU-T Recom. Q.921 (ITU-T Recom.I.441)
0	0	1	1	0	Link layer in ITU-T Recom. X.25 (Notes 1 and 4)
0	0	1	1	1	Multilink in ITU-T Recom. X.25 (Note 4)
0	1	0	0	0	Extended LAPB for half-duplex operation in ITU-T Recom. T.71
0	1	0	0	1	HDLC ARM in ISO/IEC 4335 (Note 4)
0	1	0	1	0	HDLC NRM in ISO/IEC 4335 (Note 4)
0	1	0	1	1	HDLC ABM in ISO/IEC 4335 (Note 4)
0	1	1	0	0	LAN logical link control in ISO/IEC 8802.2
0	1	1	0	1	Single link procedure (SLP) in ITU-T Recom. X.75 (Note 4)
0	1	1	1	0	ITU-T Recom. Q.922 (Note 4)
1	0	0	0	0	User-specified (Note 2)
1	0	0	0	1	DTE-DTE operation in ISO/IEC 7776 (Notes 3 and 4)
Others					Reserved

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CONTINUED FROM FIG. 658

Note 1 This standard is conformable with the DTE-DCE operation in ISO/IEC 7776 (Notes 3 and 4).
Note 2 If this code is included, octet 6a should include a user code in accordance with the user specified layer 2 protocol.
Note 3 This standard is conformable with ITU-T Recom. X.25 revised in light of the application rule defined in standard ITU-T 90.
Note 4 If this code is included, octets 6a and 6b coded in light of TTC standard may be included.

Octet 6a for ITU-T Codings
Mode of Operation (Octet 6a)

Bit Pattern
7 6
0 1 Normal mode of operation
1 0 Extended mode of operation
Others Reserved

Q.933 Use (Octet 6a)

Bit Pattern
2 1
0 0 For use when the coding defined in Recommendation Q.933 is not used
Others Reserved

Octet 6a for User Protocol
User-Specified Layer 2 Protocol Information (Octet 6a)
The use and coding of octet 6a is according to user defined requirements.

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FIG. 659

Window Size (k) (Octet 6b)

Bits 7 to 1 are coded as a binary coding of parameter value (k) in the range from 1 to 127.

User Information Layer 3 Protocol (Octet 7)

Bit Pattern

5	4	3	2	1	
0	0	1	1	0	Packet layer in ITU-T Recom. X.25 (Note 6)
0	0	1	1	1	ISO/IEC 8208 (Packet level protocol for data terminal equipment in ITU-T Recom. X.25) (Note 6)
0	1	0	0	0	ITU-T Recom. X.223 or ISO/IEC 8878 (use of ISO/IEC 8208 and ITU-T Recom. X.25 to provide the OSI-CONS) (Note 6)
0	1	0	0	1	OSI connectionless mode protocol in ITU-T Recom. X.223 or ISO/IEC 8473
0	1	0	1	0	Minimum network layer in ITU-T Recom. T.70 (40)
0	1	0	1	1	ISO/IEC TR 9577 (Note 7)
1	0	0	0	0	User-specified (Note 5)
Others					Reserved

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Note 5 If this code is included, octet 7a should include a user code in accordance with the user specified layer 3 protocol.
Note 6 If this code is included, octets 7a, 7b, and 7c coded in light of TTC standard may be included.
Note 7 If extended octets (7.1 to 7.8) are included, these octet indicate layer 3 protocol identifications, e.g., described in Appendixes C and D of ISO/IEC TR 9577, in accordance with ISO/IEC TR 9577. Otherwise, a network layer protocol identification (NLPID) carried on the connection is supported as defined in ISO/IEC TR 9577.

Octet 7a for ITU-T Codings
Mode of Operation (Octet 7a)

Bit Pattern	
7	6
0	1 Normal packet-sequence numbering
1	0 Extended packet-sequence numbering
Others	Reserved

Octet 7a for User Protocol
User-Specified Layer 3 Protocol Information (Octet 7a)
The use and coding of octet 7a is according to user defined requirements.

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FIG. 660

Default Packet Size (Octet 7b)	
Bit Pattern	
4 3 2 1	
0 1 0 0	Default packet size 16 octets
0 1 0 1	Default packet size 32 octets
0 1 1 0	Default packet size 64 octets
0 1 1 1	Default packet size 128 octets
1 0 0 0	Default packet size 256 octets
1 0 0 1	Default packet size 512 octets
1 0 1 0	Default packet size 1024 octets
1 0 1 1	Default packet size 2048 octets
1 1 0 0	Default packet size 4096 octets
Others	Reserved
Packet Window Size (Octet 7c)	
Bits 7 to 1 are coded as a binary coding of packet window size value in the range from 1 to 127.	
Additional Layer 3 Protocol Information (Octets 7.1 to 7.8) for ISO/IEC TR 9577	
Bit Pattern is as specified in ISO/IEC TR 9577	

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FIG. 661

Type of Number (Octet 5)	
Bit Pattern	
7 6 5	
0 0 0	Undecided (Note 2)
0 0 1	International number (Notes 1, 3, and 6)
0 1 0	National number (Notes 1, 3, and 6)
0 1 1	Network specific number (Notes 4 and 6)
1 0 0	Subscriber number (Notes 1, 3, and 6)
1 1 0	Abbreviated number (Note 5)
1 1 1	Reserved for extension
Others	Reserved

Note 1 The definitions of international, national, and subscriber numbers are described in ITU-T Recom. I.330.

Note 2 The indication, "undecided" is used when the addressing/numbering plan identification indicates NSAP address or when the user or network indicates the type of number with the number digit field. In the latter, the number digit field is formatted in compliance with the dialing procedure of the network. For instance, a prefix may exist and an escape code may exist additionally.

Note 3 This excludes any prefix.

Note 4 The indication, "network specific number" is used to indicate a management number or service number specialized for the network which provides the service. For instance, it is used for accessing the operator.

Note 5 The provision of this code is depending upon the network. The number indicated by this code is the abbreviation of a complete number in accordance with a specific numbering plan provided by the network.

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Note 6 This code point is applied only when the ISDN numbering plan in ITU-T Recom. E.164 is used because of the indication of the default numbering plan of the network by implicitly indication or the indication that the numbering plan is undecided.

Addressing/Numbering Plan Identification (Octet 5) (Note 11)

Bit Pattern

4	3	2	1	
0	0	0	0	Undecided (Note 7)
0	0	0	1	ISDN numbering plan in ITU-T Recom. E.164
0	0	1	0	NSAP addressing in ISO/IEC 8348 (Notes 8 and 9)
1	0	0	1	Private numbering plan (Notes 8 and 10)
1	1	1	1	Reserved for extension
Others				Reserved

Note 7 The indication, "undecided" indicates the default numbering plan of the network. The network default numbering plan should be "ISDN numbering plan in ITU-T Recom. E.164 insofar as an agreement between end users or rule of a standard or recommendation is not prescribed.

Note 8 The use of this code point is an option of the network. An agreement or negotiation between the network operator and user is necessary in order that the network and user use the same numbering plan.

Note 9 When this code point is used, the numbering plan should be coded to indicate "undecided."

Note 10 When this code point is used, the usage of the numbering plan is out of this standard.

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CONTINUED FROM FIG. 661

Note 11 All of the networks and users should support the ISDN numbering plan. If another numbering plan is used, the note in the numbering plan identifier should be referred to.
Address Number Digits (Octets 6, etc.) This is used unless an alternative is specified. This field is coded with IA5 characters, according to the formats specified in the appropriate numbering/dialing plan.

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FIG. 662

Type of Sub-Address Number (Octet 5)
Bit Pattern 7 6 5 0 0 0 NSAP (ITU-T Recom. X.213 or ISO/IEC 8348) 0 0 1 User-specified ATM end system address 0 1 0 User-specified Others Reserved
Odd/Even Indicator (Octet 5) (Note 1)
Bit Pattern 4 0 Even number of address signals 1 Odd number of address signals
Sub-Address Information (Octet 6, etc.)
The NSAP address according to ITU-T Recom. X.213 or ISO/IEC 8348 shall be formatted as specified by octet 6 which contains the authority and format identifier (AFI). The encoding is made according to the "preferred binary encoding" as defined in ITU-T Recom. X.213 or ISO/IEC 8348 except when used for terminal selection (Note 3).

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CONTINUED FROM FIG. 662

For the definition of this type of sub-address, see ITU-T Recom. I.344
For user-specified ATM end system address, this field is encoded according to the user specification and has a maximum length of 20 octets (Note 4).
For user-specified sub-address, this field is encoded according to the user specification and has a maximum length of 20 octets. When interworking with networks complying with ITU-T Recom. X.25, the coding should be made with BCD.

Notes

1 It is recommended that users use the indication of NSAP in the type of sub-address number since it permits the use of binary, decimal, or IA5 characters in the standardized manner.
2 When the subaddress is used for terminal selection, it is recommended that users use the local IDI format wherein the AFI(authority and format identifier) field is encoded with BCD 50. In this case, IA5 character syntax using only digits from 0 to 9 is utilized as the DSP. The respective characters are coded in one octet according to the ITU-T Recom. T.50 or ISO/IEC 646, so that each most significant bit is zero parity.

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FIG. 663

Type of Number (Octet 5)

Bit Pattern

7	6	5	
0	0	0	Undecided (Note 2)
0	0	1	International Number (Notes 1, 3, and 6)
0	1	0	National number (Notes 1, 3, and 6)
0	1	1	Network specific number (Notes 4 and 6)
1	0	0	Subscriber number (Notes 1, 3, and 6)
1	1	0	Abbreviated number (Note 5)
1	1	1	Reserved for extension
Others			Reserved

Note 1 The definitions of international, national, and subscriber numbers are described in ITU-T Recom. I.330.

Note 2 The indication, "undecided" is used when the addressing/numbering plan identification indicates NSAP address or when the user or network indicates the type of number with the number digit field. In the latter, the number digit field is formatted in compliance with the dialing procedure of the network. For instance, a prefix may exist and an escape code may exist additionally.

Note 3 This excludes any prefix and escape.

Note 4 The indication, "network specific number" is used to indicate a management number or service number specialized for the network which provides the service. For instance, it is used for accessing the operator.

Note 5 The provision of this code is depending upon the network. The number indicated by this code is the abbreviation of a complete number in accordance with a specific numbering plan provided by the network.

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CONTINUED FROM FIG. 663

Note 6 This code point is applied only when the ISDN numbering plan in ITU-T Recom. E.164 is used because of the indication of the default numbering plan of the network by implicitly indication or the indication that the numbering plan is undecided.

Addressing/Numbering Plan Identification (Octet 5) (Note 11)

Bit Pattern

4	3	2	1	
0	0	0	0	Undecided (Note 7)
0	0	0	1	ISDN numbering plan in ITU-T Recom. E.164
0	0	1	0	NSAP addressing in ISO/IEC 8348 (Notes 8 and 9)
1	0	0	1	Private numbering plan (Notes 8 and 10)
1	1	1	1	Reserved for extension
Others				Reserved

Note 7 The indication, "undecided" indicates the default numbering plan of the network. The network default numbering plan should be "ISDN numbering plan in ITU-T Recom. E.164 insofar as an agreement between end users or rule of a standard or recommendation is not prescribed.

Note 8 The use of this code point is an option of the network. An agreement or negotiation between the network operator and user is necessary in order that the network and user use the same numbering plan.

Note 9 When this code point is used, the numbering plan should be coded to indicate "undecided."

Note 10 When this code point is used, the usage of the numbering plan is out of this standard.

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FIG. 664

Presentation Indicator (Octet 5a)

Bit Pattern

7	6	
0	0	Presentation is allowed
0	1	Presentation is restricted
1	0	Number is not availed
0	0	Reserved

Note 12 On the interface between the calling user and the network, the presentation indicator used for indicating the calling user's intent to present the calling user's number to the called user. The use of presentation indicator can be decided in the subscription engagement. The omission of octet 5a in the network, wherein the engagement information as to the presentation restriction is not supported, should be interpreted as "00" (presentation is allowed).

Screening Indicator (Octet 5a)

Bit Pattern

2	1	
0	0	Provided by the user and not screened by the network
0	1	Provided by the user and verified by the network
1	0	Provided by the user and screened out by the network
1	1	Provided by the network

Note 13 The omission of octet 5a should be interpreted as "00" (provided by the user and not screened by the network).

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CONTINUED FROM FIG. 664

Address/Numbering Digits (Octets 6, etc.) This is used unless an alternative is specified. This field is coded with IA5 characters, according to the formats specified in the appropriate numbering/dialing plan.
NSAP Address Octets (Octets 6, etc. for NSAP addressing) If the use of NSAP addressing is indicated in the addressing/numbering plan.

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FIG. 665

Type of Sub-Address (Octet 5)

Bit Pattern

7	6	5	
0	0	0	NSAP (ITU-T Recom. X.213 or ISO/IEC 8348)
0	0	1	User-specified ATM end system address
0	1	0	User-specified
Others			Reserved

Odd/Even Indicator (Octet 5) (Note 1)

Bit Pattern

4	
0	Even number of address signals (Note 1)
1	Odd number of address signals (Note 1)

Sub-Address Information (Octet 6, etc.)

The NSAP address according to ITU-T Recom. X.213 or ISO/IEC 8348 shall be formatted as specified by octet 6 which contains the authority and format identifier (AFI). The encoding is made according to the "preferred binary encoding" as defined in ITU-T Recom. X.213 or ISO/IEC 8348 except when used for terminal selection (Note 3).
ITU-T Recom. I.344
For user-specified ATM end system address, this field is encoded according to the user specification and has a maximum length of 20 octets (Note 4).
For user-specified sub-address, this field is encoded according to the user specification and has a maximum length of 20 octets. When interworking with networks complying with ITU-T Recom. X.25, the coding should be made with BCD.

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CONTINUED FROM FIG. 665

Notes

1 It is recommended that users use the indication of NSAP in the type of sub-address number since it permits the use of binary, decimal, or IA5 characters in the standardized manner.

2 When the subaddress is used for terminal selection, it is recommended that users use the local IDI format wherein the AFI(authority and format identifier) field is encoded with BCD 50. In this case, IA5 character syntax using only digits from 0 to 9 is utilized as the DSP. The respective characters are coded in one octet according to the ITU-T Recom. T.50 or ISO/IEC 646, so that each most significant bit is zero parity.

3 When the NSAP code point is not appropriate, the user-specified ATM end system address is used between two ATM terminal devices.

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FIG. 666

VP-Associated Signaling (Octet 5) Bit Pattern 5 4 0 0 VP-associated signaling (the same VPI for user information as for signaling) 0 1 Explicit indication of VPCI Others Reserved
Pref. /Ex.(Preferred/Exclusive) (Octet 5) Bit Pattern 3 2 1 0 0 0 Exclusive VPCI, exclusive VCI 0 0 1 Exclusive VPCI, any VCI Others Reserved
Virtual Path Connection Identifier (Octets 6 and 7) A value between 0 and 65535 is coded for representing the identifier of the virtual path connection (Note 1).
Virtual Channel Identifier (Octets 8 and 9) (Note 2) 0 to 31 Not used for on-demand user plane connections 32 to 65535 Identifier of the virtual channel (Note 3) Note 1 The use of the VPCI is described in ITU-T Recom. Q.2931 The valid range of VPCIs is determined at the subscription engagement. Note 2 The value in the virtual channel identifier is the same as the value in the VCI field of the corresponding ATM cell header.

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FIG. 667

Cumulative Transit Delay Value (Octets 5.1 and 5.2) The cumulative transit delay value in milliseconds is encoded to a binary code. The coding rule for integer values described in 4.5.1 should be applied. The cumulative transit delay value occupies 16 bits total.
Maximum End-to-End Transit Delay Value (Octets 6.1 and 6.2) The maximum end-to-end transit delay value in milliseconds is encoded to a binary code. The coding rule for integer values described in 4.5.1 should be applied. The maximum end-to-end transit delay value occupies 16 bits total. The value "1111 1111 1111 1111," however, should not be interpreted as a maximum end-to-end transit delay value. This code point indicates that: any end-to-end transit delay value may be acceptable; and deliver cumulative end-to-end transit delay value to the called user."

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FIG. 668

QOS Class for Forward (Octet 5)								
Bit Pattern								
8	7	6	5	4	3	2	1	
0	0	0	0	0	0	0	0	Unspecified QOS class (Note 1)
1	1	1	1	1	1	1	1	Reserved for future indication of parameterized QOS (Note 2)
			Others					Reserved

QOS Class for Backward (Octet 6)								
Bit Pattern								
8	7	6	5	4	3	2	1	
0	0	0	0	0	0	0	0	Unspecified QOS class (Note 1)
1	1	1	1	1	1	1	1	Reserved for future indication of parameterized QOS (Note 2)
			Others					Reserved

Notes
1 If this class is indicated, the network does not guarantee any specific quality of service.
2 This code is reserved until QOS parameters are defined. The QOS parameters will be contained in octets 7 and followers.

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FIG. 669

Broadband Repeat Indication (Octet 5)				
Bit Pattern				
4	3	2	1	
0	0	0	0	Reserved for use described in ITU-T Recom. Q.2763 (ISUP)
0	0	0	1	Reserved for use described in ITU-T Recom. Q.2763 (ISUP)
0	0	1	0	Prioritizing list for selecting one possibility

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FIG. 670

Type of Network Identification (Octet 5) Bit Pattern 7 6 5 0 0 0 Specified by user 0 1 0 National network identification (Note 1) 0 1 1 International network identification (Note 1) Others Reserved Note 1 When the type of network identification is coded as "010" (national network identification), the national network identification plan is coded in accordance with the national specification.
Network Identification Plan (Octet 5) Bit Pattern 4 3 2 1 0 0 0 0 Undecided 0 0 0 1 Carrier Identification Code (Note 2) 0 0 1 1 Data Network Identification Code (ITU-T Recom. X.121) Others Reserved Note 2 The carrier identification code is an appropriate fashion for a remote user to identify the network which serves it.
Network Identification Plan (Octet 6) IA5 characters are organized according to the network identification plan specified.

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FIG. 671

Shaping Indicator (Octet 5) Bit Pattern 7 6 0 0 Requirement on shaping by the network is not specified by the user if shaping is applied by the network. 0 1 Aggregate-shaping of user and OAM cells is not allowed if shaping applied by the network. Others Reserved
Cmpl. Ind. (Compliance Indicator) (Octet 5) Bit Pattern 5 0 The use of end-to-end OAM F5 flow is optional. 1 The use of end-to-end OAM F5 flow is mandatory.
User-Network Fault Management Indicator (Octet 5) Bit Pattern 3 2 1 0 0 0 No user-originated fault management indications (Note 1) 0 0 1 Use of user-originated fault management indications with a cell rate of 1 cell/s (Note 1) Others Reserved

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CONTINUED FROM FIG. 671

Fwd. e-to-e. (Forward End-to-End) OAM F5 Flow Indicator (Octet 6) (Notes 1 and 2)

Bit Pattern

7 6 5	
0 0 0	0% of the forward cell rate (for which the CLP is zero or one) specified in the ATM traffic descriptor information element for forward direction.
0 0 1	0.1% of the forward cell rate (for which the CLP is zero or one) specified in the ATM traffic descriptor information element for forward direction.
1 0 0	1% of the forward cell rate (for which the CLP is zero or one) specified in the ATM traffic descriptor information element for forward direction.
Others	Reserved

Bwd. e-to-e. (Backward End-to-End) OAM F5 Flow Indicator (Octet 6) (Notes 1 and 2)

Bit Pattern

3 2 1	
0 0 0	0% of the forward cell rate (for which the CLP is zero or one) specified in the ATM traffic descriptor information element for forward direction.
0 0 1	0.1% of the forward cell rate (for which the CLP is zero or one) specified in the ATM traffic descriptor information element for forward direction.
1 0 0	1% of the forward cell rate (for which the CLP is zero or one) specified in the ATM traffic descriptor information element for forward direction.
Others	Reserved

Notes

1 Any network-generated fault management indication, e.g., the alarm indication, is always transferred to the user regardless of the code point of the user-network fault management indicator.

2 The cell rate allocated to the forward and backward directions are the amount of the follows. The cell rate indicated in the user-network fault management indicator.

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FIG. 672

Information Element	Reference Section	FV	Length	Note
TMUI	(1)	F	4	Normal Binary Code
TMUI Assignment Source ID	(2)	V	3 or more	BCD
IUMI	(3)	V	1-8	BCD
Execution Authentication Type	(4)	F	1	
Authentication Random Pattern	(5)	V	1 or more	
Authentication Ciphering Pattern	(6)	V	1 or more	
Execution Ciphering Type	(7)	F	1	
TC Info.	(8)	F		

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FIG. 673

Information Element	Reference Section	Type	Length FV (oct)		Note
Number (N) of Candidate Sectors for Call Attempt or Acceptance	2.5.2.4.3.4.5.1	M	F	1	N is from One to 20
BTS Number	2.5.2.4.3.4.5.2	M	F	2	For First Candidate Sector
Sector Number	2.5.2.4.3.4.5.3	M	F	1	
Perch Channel Reception SIR	2.5.2.4.3.4.5.4	M	F	1	
Perch Channel Xmsn Pwr	2.5.2.4.3.4.5.5	M	F	1	
Long Code Phase Difference	2.5.2.4.3.4.5.6	M	V	1 or more	Represented in Chip Time
.					
BTS Number	2.5.2.4.3.4.5.2	M	F	2	For N-th Candidate Sector
Sector Number	2.5.2.4.3.4.5.3	M	F	1	
Perch Channel Reception SIR	2.5.2.4.3.4.5.4	M	F	1	
Perch Channel Xmsn Pwr	2.5.2.4.3.4.5.5	M	F	1	
Long Code Phase Difference	2.5.2.4.3.4.5.6	M	V	1 or more	Represented in Chip Time

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FIG. 674

Information Element	Reference Section	Type	Length FV (oct)		Note
Number (N) of In-use Sectors	2.5.2.4.3.4.5.1	M	F	1	N is from One to Three
BTS Number	2.5.2.4.3.4.5.2	M	F	2	For First In-use Sector
Sector Number	2.5.2.4.3.4.5.3	M	F	1	
Perch Channel Reception SIR	2.5.2.4.3.4.5.4	M	F	1	
Perch Channel Xmsn Pwr	2.5.2.4.3.4.5.5	M	F	1	
• • • • • • • • • • • • •					
BTS Number	2.5.2.4.3.4.5.2	M	F	2	For N-th In-use Sector
Sector Number	2.5.2.4.3.4.5.3	M	F	1	
Perch Channel Reception SIR	2.5.2.4.3.4.5.4	M	F	1	
Perch Channel Xmsn Pwr	2.5.2.4.3.4.5.5	M	F	1	

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FIG. 675

Information Element	Reference Section	Type	Length FV (oct)		Note
Number (N) of Candidate Sectors for DHO Branch Addition	2.5.2.4.3.4.5.1	M	F	1	N is from One to 20
BTS Number	2.5.2.4.3.4.5.2	M	F	2	For First Candidate Sector
Sector Number	2.5.2.4.3.4.5.3	M	F	1	
Perch Channel Reception SIR	2.5.2.4.3.4.5.4	M	F	1	
Perch Channel Xmsn Pwr	2.5.2.4.3.4.5.5	M	F	1	
Long Code Phase Difference	2.5.2.4.3.4.5.6	M	V	1 or more	Represented in Chip Time
• • • • • • • • • • • • •					
BTS Number	2.5.2.4.3.4.5.2	M	F	2	For N-th Candidate Sector
Sector Number	2.5.2.4.3.4.5.3	M	F	1	
Perch Channel Reception SIR	2.5.2.4.3.4.5.4	M	F	1	
Perch Channel Xmsn Pwr	2.5.2.4.3.4.5.5	M	F	1	
Long Code Phase Difference	2.5.2.4.3.4.5.6	M	V	1 or more	Represented in Chip Time

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FIG. 676

Information Element	Reference Section	Type	Length FV (oct)		Note
Number (N) of Deleted Sectors for DHO Branch Deletion	2.5.2.4.3.4.5.1	M	F	1	N is from One to Three
BTS Number	2.5.2.4.3.4.5.2				For First Deleted Sector
Sector Number	2.5.2.4.3.4.5.3				
.					
BTS Number	2.5.2.4.3.4.5.2				For N-th Deleted Sector
Sector Number	2.5.2.4.3.4.5.3				

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FIG. 677

Information Element	Reference Section	Type	Length FV (oct)		Note
Number (N) of Candidate Sectors for HHO	2.5.2.4.3.4.5.1	M	F	1	N is from One to 20
BTS Number	2.5.2.4.3.4.5.2	M	F	2	For First Candidate Sector
Sector Number	2.5.2.4.3.4.5.3	M	F	1	
Perch Channel Reception SIR	2.5.2.4.3.4.5.4	M	F	1	
Perch Channel Xmsn Pwr	2.5.2.4.3.4.5.5	M	F	1	
Long Code Phase Difference	2.5.2.4.3.4.5.6	M	V	1 or more	Represented in Chip Time
.					
BTS Number	2.5.2.4.3.4.5.2	M	F	2	For N-th Candidate Sector
Sector Number	2.5.2.4.3.4.5.3	M	F	1	
Perch Channel Reception SIR	2.5.2.4.3.4.5.4	M	F	1	
Perch Channel Xmsn Pwr	2.5.2.4.3.4.5.5	M	F	1	
Long Code Phase Difference	2.5.2.4.3.4.5.6	M	V	1 or more	Represented in Chip Time

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FIG. 678

Information Element	Reference Section	Type	Length FV (oct)		Note
Number of RBC IDs	2.5.2.4.3.4.5.7	M	F	1	R (Number of RBC IDs) Is from 1 to s
RBC ID	2.5.2.4.3.4.5.8	M	F	1	For First Call
Necessary SIR	2.5.2.4.3.4.5.9	M	F	1	
FER Measurement	2.5.2.4.3.4.5.10	M	F	1	
.					
RBC ID	2.5.2.4.3.4.5.8	M	F	1	For s-th Call
Necessary SIR	2.5.2.4.3.4.5.9	M	F	1	
FER Measurement	2.5.2.4.3.4.5.10	M	F	1	

FIG. 679

Information Element	Reference Section	Type	Length FV (oct)		Note
(Not Identified)					

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FIG. 680

Extension (Octet 1) (Particularities Are Not Decided)

Bit Pattern

8
0
1

Message Type (Octet 1) (Particularities Are Not Decided)

Bit Pattern

7	6	5	4	
0	0	0	0	
0	0	0	1	TERMINAL ASSOCIATION SETUP
0	0	1	0	TERMINAL ASSOCIATION CONNECT
0	0	1	1	PAGING RESPONSE
0	1	0	0	PAGE AUTHORIZED
0	1	0	1	TERMINAL ASSOCIATION RELEASE
0	1	1	0	TERMINAL ASSOCIATION RELEASE COMPLETE
Others				Reserved
1	1	1	1	Reserved for extension for the case wherein all other values for message type identifier have been used (see note)

Note If this is used, the message type is indicated in octet 3 of the message and the contents of the message specific parameter and later parameters are indicated in the next octets.

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CONTINUED FROM FIG. 680

Flag (Octet 1)

Bit Pattern

3

0 The message action indicator field has no meaning, so that a usual error process procedure will be applied.

1 Process should comply with the message action indicator, so that the usual error process procedure will not be applied.

Message Action Indicator (Octet 1) (Particularities Are Not Decided)

Bit Pattern

2	1
0	0
0	1
1	0
0	1

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FIG. 681

Parameter	Reference Section	
TERMINAL ASSOCIATION SETUP Message Specific Parameter	2.5.2.4.3.5...4.1(1)	
PAGING RESPONSE Message Specific Parameter	2.5.2.4.3.5...4.1(2)	
TERMINAL ASSOCIATION RELEASE Message Specific Parameter	2.5.2.4.3.5...4.1(3)	

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FIG. 682

Subfield	Reference Section	F/V
TMUI	2.5.2.4.3.5...4.2(6)	F
Mobile station Type	2.5.2.4.3.5...4.2(3)	V

FIG. 683

Subfield	Reference Section	F/V
Paged MS ID	2.5.2.4.3.5...4.2(4)	V
Mobile station Type	2.5.2.4.3.5...4.2(3)	V
Paging ID	2.5.2.4.3.5...4.2(5)	V

FIG. 684

Subfield	Reference Section	F/V
Cause	2.5.2.4.3.5...4.2(2)	V

FIG. 685

IE of TAC Entity Message	Reference Section	Note
Cause	2.5.2.4.3.5...4.2(2)	
Mobile station Type	2.5.2.4.3.5...4.2(3)	
Paged MS ID	2.5.2.4.3.5...4.2(4)	
Paging ID	2.5.2.4.3.5...4.2(5)	
TMUI	2.5.2.4.3.5...4.2(6)	

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FIG. 686

Extension (Octet 1) Bit Pattern 8 0 There is a next octet (octet 2) or more octets 1 Final octet
Cause Value (Octet 1) (Particularities Are Not Decided) Bit Pattern 7 6 5 4 3 2 1 0 0 1 [Ordinary Class] 0 0 0 0 Ordinary disconnection

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FIG. 687

Available Frequency Band (Octet 2) (Particularities Are Not Decided) This indicates whether the mobile station can avail each of four frequency bands f1 through f4.
Available Code per Frequency Band (Octet 3) (Particularities Are Not Decided) This indicates the available uplink long code per each frequency band.
Information Transfer Rate per Code (Octet 2) This indicates the information transfer rate per the available uplink long code. Bit Pattern 0 0 0 0 — 8 kpbs 0 0 0 1 — 16 kpbs 0 0 1 0 — 32 kpbs 0 0 1 1 — 64 kpbs 0 1 0 0 — 128 kpbs 0 1 0 1 — 256 kpbs 0 1 1 0 — 512 kpbs 0 1 1 1 — 1024 kpbs 1 0 0 0 — 2048 kpbs 1 0 0 1 — 4096 kpbs 1 0 1 0 — 8192 kpbs 1 0 1 1 — 16384 kpbs Others — Reserved

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Authentication Type (Octet 1) This indicates the type of authentication procedure that the mobile station can carry out. Particularities are not decided.
Ciphering Type (Octet 1) This indicates the type of ciphering procedure that the mobile station can carry out. Particularities are not decided.
Maximum Transmit Power This indicates the maximum transmission power that the mobile station can achieve. Particularities are not decided. It may not be necessary.
Mobile Station Indicator This indicates the type of mobile station. Particularities are not decided. Bit Pattern General Maintenance VIP Reserved

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FIG. 688

Type of Number (Octet 1) This indicate the type of number (TMUI or IMUI) in the next octet. Bit Pattern 8 0 TMUI 1 IMUI
Length of Number (Octet 1) This indicates the length of the TMUI or IMUI at octet 2 in octets. The length does not include the length of octet 1.
TMUI (Octet 2) See the description of TMUI subfield. This is used in the paging message orpaging response message in ordinal occasion.
IMUI (Octet 2) This is an integer code transformed from an IMUI in the BCD. This is used in the paging message (TAC entity message) or paging response message (BSM entity message) when the network has recognized that the TMUI stored in the mobile station is different from that stored in the network. The maximum length of IMUI is 50 bits.

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FIG. 689

Unique Identification Number This is used for identifying the mobile station in the node for assigning the TMUI to the mobile station. This is in the range from 0 to 999.

FIG. 690

Message	Reference
BEARER SETUP MESSAGES LINK SETUP REQUESTED LINK SETUP LINK SETUP PROCEEDING LINK SETUP RESPONSE BEARER RELEASE MESSAGES LINK RELEASE LINK RELEASE COMPLETE OTHER MESSAGES LINK FACILITY (FROM BSC FUNCTION OF NETWORK TO BS) LINK FACILITY (FROM BS TO BSC FUNCTION OF NETWORK)	

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FIG. 691

RELEVANCY TO STATE TRANSITION OF BC PROTOCOL ENTITY	YES	NO
	LINK SETUP REQUESTED LINK SETUP LINK SETUP PROCEEDING LINK SETUP RESPONSE LINK RELEASE LINK RELEASE COMPLETE	LINK FACILITY (FROM BSC FUNCTION OF NETWORK TO BS) LINK FACILITY (FROM BS TO BSC FUNCTION OF NETWORK)

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FIG. 692

Protocol Discriminator: BC
Connection Identification: Control Signal Between BTS and MSCNW (BSC Function)
Direction: SCMF of BTS to SACF and TACF of MSCNW (BSC function)

Information Element	Reference Section	Type	Length FV (oct)		Note
Protocol Discriminator		M	F	1	
Link Reference		M	V		for SDCCH
Message Type		M	F	1	
SDCCH Setup Request		O	F	4	
LAI Setup Request		O	F	3	

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FIG. 693

Protocol Discriminator: BC
Connection Identification: Control Signal Between BTS and MSCNW (BSC Function)
Direction: SACF and TACF of MSCNW (BSC Function) to SCMF of BTS
TACF of MSCNW (BSC Function) to BCFr of BTS

Information Element	Reference Section	Type	Length FV (oct)		Note
Protocol Discriminator		M	F	1	
Link Reference		M	V		
Message Type		M	F	1	
Link ID Fund. IE		M	F	7	
TCH Setup Req. IE Without Freq. Ind. (Call Initiated)		O	V		
TCH Setup Req. IE Without Freq. Ind. (Active)		O	V		
TCH Setup Req. IE With Freq. Ind.		O	V		
DHO Branch Addn. Req. IE		O	V		
Intra-BS DHO Branch Addn. Req. IE		O	F	4	
ACCH Setup Req. IE		O	F		

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FIG. 694

Protocol Discriminator: BC
Connection Identification: Control Signal Between BTS and MSCNW (BSC Function)
Direction: BCFr of BTS to TACF of MSCNW (BSC Function)

Information Element	Reference Section	Type	Length FV (oct)		Note
Protocol Discriminator		M	F	1	
Link Reference		M	V		
Message Type		M	F	1	
TCH Setup Acpt. IE Without Freq. Ind. (Call Initiated)		O	V		
TCH Setup Acpt. IE Without Freq. Ind. (Active)		O	V		
TCH Setup Acpt. IE With Freq. Ind.		O			
Intra-BS DHO Branch Addn. Acpt. and Resp. IE		O	V		
ACCH Setup Acpt. and Resp. IE		O	F	3	

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FIG. 695

Protocol Discriminator: BC
Connection Identification: Control Signal Between BTS and MSCNW (BSC Function)
Direction: BCFr of BTS to TACF of MSCNW (BSC Function)
SCMF of BTS to SACF and TACF of MSCNW (BSC Function)

Information Element	Reference Section	Type	Length FV (oct)		Note
Protocol Discriminator		M	F	1	
Link Reference		M	V		
Message Type		M	F	1	
TCH Setup Resp. IE Without Freq. Ind. (Call Initiated)		O	V		
TCH Setup Resp. IE Without Freq. Ind. (Active)		O	V		
TCH Setup Resp. IE With Freq. Ind.		O	V		
DHO Branch Addn. Resp. IE		O	V		
Intra-BS DHO Branch Addn. Resp. IE			V		
ACCH Setup Resp. IE		O	F	3	

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FIG. 696

Protocol Discriminator: BC
Connection Identification: Control Signal Between BTS and MSCNW (BSC Function)
Direction: TACF of MSCNW (BSC Function) to BCFr of BTS

Information Element	Reference Section	Type	Length FV (oct)		Note
Protocol Discriminator		M	F	1	
Link Reference		M	V		
Message Type		M	F	1	
Intra-BS DHO Branch Addn. Req. IE		O	F	3	
Intra-BS DHO Branch Deln. Req. IE		O	F	3	
Intra-BS DHO Initiation Req. IE		O	F	3	
ACCH Setup Req. IE		O	F		
ACCH Rel. Req. IE		O	F	7	
Freq. Repl. Req. IE Without Freq. Ind.		O	F	3	
Freq. Repl. Req. IE with Freq. Ind.		O	F	3	
Setup Completion Notification IE		O	F		

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FIG. 697

Protocol Discriminator: BC
Connection Identification: Control Signal Between BTS and MSCNW (BSC Function)
Direction: BCFr of BTS to TACF of MSCNW (BSC Function)

Information Element	Reference Section	Type	Length FV (oct)		Note
Protocol Discriminator		M	F	1	
Link Reference		M	V		
Message Type		M	F	1	
Intra-BS DHO Branch Addn. Resp. IE		O	V		
Intra-BS DHO Branch Deln. Resp. IE		O	F	3	
Intra-BS DHO Initiation. Acpt. IE		O	V		
ACCH Setup Resp. IE		O	F	3	
ACCH Rel. Resp. IE		O	F	3	
Freq. Repl. Resp. IE with Freq. Ind.		O	F	3	
Freq. Repl. Req. IE with Freq. Ind.		O	V		
Freq. Repl. Acpt. IE Without Freq. Ind.		O	F	4	
Freq. Repl. Resp. IE Without Freq. Ind.		O	F	3	
Code Repl. Req. IE		O	V		

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FIG. 698

Protocol Discriminator: BC
Connection Identification: Control Signal Between BTS and MSCNW (BSC Function)
Direction: TACF of MSCNW (BSC Function) to BCFr of BTS
SACF and TACF of MSCNW (BSC Function) to SCMF of BTS

Information Element	Reference Section	Type	Length FV (oct)		Note
Protocol Discriminator		M	F	1	
Link Reference		M	V.		
Message Type		M	F	1	
Link ID Fund. IE		O	F	6	
TCH Rel. Req. IE		O	F	3	
SDCCH Rel. Req. IE		O	F	3	

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FIG. 699

Protocol Discriminator: BC
Connection Identification: Control Signal Between BTS and MSCNW (BSC Function)
Direction: BCFr of BTS to TACF of MSCNW (BSC Function)
SACF and TACF of MSCNW (BSC Function) to SCMF of BTS

Information Element	Reference Section	Type	Length FV (oct)		Note
Protocol Discriminator		M	F	1	
Link Reference		M	V		
Message Type		M	F	1	
Cause Indication		O (Note 1)	F	3	

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FIG. 700

Use of Link Setup Message \ Element Used in Link Setup Message	Link ID Fund. IE	TCH Setup Req. IE Without Freq. Ind. (Call Initiated)	TCH Setup Req. IE Without Freq. Ind. (Active)
Setup of SDCCH	M		
Setup of 1st Radio Branch for 1st Conn. of 1st Call	M	M	
Setup of 1st and 2nd Radio Branches for 1st Conn. of 1st Call	M	M	
Setup of 2nd Radio Branch for 1st Conn. of 1st Call	M		
Setup of 2nd and 3rd Radio Branches for 1st Conn. of 1st Call	M		
Setup of 1st Radio Branch for 2nd Conn. of 1st Call	M		
Setup of 1st and 2nd Radio Branches for 2nd Conn. of 1st Call	M		
Setup of 2nd Radio Branch for 2nd Conn. of 1st Call	M		
Setup of 2nd and 3rd Radio Branches for 2nd Conn. of 1st Call	M		
Setup of 1st Radio Branches for 1st Conn. of 2nd Call	M		
Setup of 1st and 2nd Radio Branches for 1st Conn. of 2nd Call	M		
Setup of 2nd Radio Branch for 1st Conn. of 2nd Call	M		
Setup of 2nd and 3rd Radio Branches for 1st Conn. of 2nd Call	M		
Freq. Repl. Without freq. Ind. (to Different Rate)	M		M
Freq. Repl. with freq. Ind. (to Different Rate)	M		
Rate Repl. (in Same Freq.)	M		

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CONTINUED FROM FIG. 700

TCH Setup Req. IE with Freq. Ind.	DHO Branch Addn. Req. IE	Intra-BS DHO Branch Addn. Req. IE	ACCH Setup Req. IE	Note
			M	
		M	M	
	M		M	
	M	M	M	
			O	
M			O	
M		M	O	
	M		O	
	M	M	O	
			O	
M			O	
M		M	O	
	M		O	
	M	M	O	
			O	
M			O	
M		M	O	

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FIG. 701

Element Used in Link Setup Proceeding Message / Use of Link Setup Proceeding Message	TCH Setup Acpt. IE Without Freq. Ind. (Call Initiated)	TCH Setup Acpt. IE Without Freq. Ind. (Active)
Setup of SDCCH		
Setup of 1st Radio Branch for 1st Conn. of 1st Call	M	
Setup of 1st and 2nd Radio Branches for 1st Conn. of 1st Call	M	
Setup of 2nd Radio Branch for 1st Conn. of 1st Call		
Setup of 2nd and 3rd Radio Branches for 1st Conn. of 1st Call		
Setup of 1st Radio Branch for 2nd Conn. of 1st Call		
Setup of 1st and 2nd Radio Branches for 2nd Conn. of 1st Call		
Setup of 2nd Radio Branch for 2nd Conn. of 1st Call		
Setup of 2nd and 3rd Radio Branches for 2nd Conn. of 1st Call		
Setup of 1st Radio Branches for 1st Conn. of 2nd Call		
Setup of 1st and 2nd Radio Branches for 1st Conn. of 2nd Call		
Setup of 2nd Radio Branch for 1st Conn. of 2nd Call		
Setup of 2nd and 3rd Radio Branches for 1st Conn. of 2nd Call		
Freq. Repl. Without freq. Ind. (to Different Rate)		M
Freq. Repl. with freq. Ind. (to Different Rate)		
Rate Repl. (in Same Freq.)		

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CONTINUED FROM FIG. 701

TCH Setup Acpt. IE with Freq. Ind.	Intra-BS DHO Branch Addn. Resp. IE	ACCH Setup Resp. IE	Note
			This Message Is Not Used
	M	M	
	M	M	This Message Is Not Used
			This Message Is Not Used
M		O	
M	M	O	This Message Is Not Used
			This Message Is Not Used
M		O	
M	M	O	This Message Is Not Used
			This Message Is Not Used
		M	
M		M	
M	M	M	

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FIG. 702

Element Used in Link Setup Response Message / Use of Link Setup Response Message	TCH Setup Resp. IE Without Freq. Ind. (Call Initiated)	TCH Setup Resp. IE Without Freq. Ind. (Active)
Setup of SDCCH		
Setup of 1st Radio Branch for 1st Conn. of 1st Call	M	
Setup of 1st and 2nd Radio Branches for 1st Conn. of 1st Call	M	
Setup of 2nd Radio Branch for 1st Conn. of 1st Call		
Setup of 2nd and 3rd Radio Branches for 1st Conn. of 1st Call		
Setup of 1st Radio Branch for 2nd Conn. of 1st Call		
Setup of 1st and 2nd Radio Branches for 2nd Conn. of 1st Call		
Setup of 2nd Radio Branch for 2nd Conn. of 1st Call		
Setup of 2nd and 3rd Radio Branches for 2nd Conn. of 1st Call		
Setup of 1st Radio Branches for 1st Conn. of 2nd Call		
Setup of 1st and 2nd Radio Branches for 1st Conn. of 2nd Call		
Setup of 2nd Radio Branch for 1st Conn. of 2nd Call		
Setup of 2nd and 3rd Radio Branches for 1st Conn. of 2nd Call		
Freq. Repl. Without freq. Ind. (to Different Rate)		M
Freq. Repl. with freq. Ind. (to Different Rate)		
Rate Repl. (in Same Freq.)		

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CONTINUED FROM FIG. 702

TCH Setup Resp. IE with Freq. Ind.	DHO Branch Addn. Resp. IE	Intra-BS DHO Branch Addn. Resp. IE	ACCH Setup Resp. IE	Note
	M		M	
	M	M	M	
M				
M				
	M		O	
	M	M	O	
M				
M				
	M		O	
	M	M	O	
M				
M			M	

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FIG. 703

Element Used in Link Facility Message from NW (BSC Func.) to BTS / Use of Link Facility Message	Intra-BS DHO Branch Addn. Req. IE	Intra-BS DHO Branch Deln. Req. IE	Intra-BS HHO Initiation Req. IE
Freq. Repl. Without Freq. Ind. in the Same Sector			M
Freq. Repl. with Freq. Ind. in the Same Sector			M
Freq. Repl. Without Freq. Ind. in the Same Sector and the Sector Added for Intra-BS DHO			M
Freq. Repl. with Freq. Ind. in the Same Sector and the Sector Added for Intra-BS DHO			M
Intra-BS DHO Sector Addn.	M		
Intra-BS DHO Sector Deln.		M	
Inter-sector HHO Without Freq. Addn.			M
Inter-sector HHO with Freq. Addn.			M
Inter-sector HHO Without Freq. Addn. and Intra-BS DHO Sector Addn.	M		M
Inter-sector HHO with Freq. Addn. and Intra-BS DHO Sector Addn.	M		M
ACCH Setup			
ACCH Rel.			
Setup Completion Notification IE			

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CONTINUED FROM FIG. 703

ACCH Setup Req. IE	ACCH Rel. Req. IE	Freq. Repl. Req. IE Without Freq. Ind.	Freq. Repl. Req. IE with Freq. Ind.
		M	
			M
		M	
			M
		M	
			M
		M	
			M
M			
	M		

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FIG. 704

Element Used in Link Facility Message from NW (BSC Func.) to BTS / Use of Link Facility Message	Setup Completion Notification IE	Note
Freq. Repl. Without Freq. Ind. in the Same Sector		When Quality Is Deteriorated
Freq. Repl. with Freq. Ind. in the Same Sector		When Freq. Repl. Req. by BTS Is Necessary
Freq. Repl. Without Freq. Ind. in the Same Sector and the Sector Added for Intra-BS DHO		
Freq. Repl. with Freq. Ind. in the Same Sector and the Sector Added for Intra-BS DHO		
Intra-BS DHO Sector Addn.		
Intra-BS DHO Sector Deln		
Inter-sector HHO Without Freq. Addn.		
Inter-sector HHO with Freq. Addn.		
Inter-sector HHO Without Freq. Addn. and Intra-BS DHO Sector Addn.		
Inter-sector HHO with Freq. Addn. and Intra-BS DHO Sector Addn.		
ACCH Setup		
ACCH Rel.		
Setup Completion Notification IE	M	

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FIG. 705

Element Used in Link Facility Message from BTS to NW (BSC Func.) / Use of Link Facility Message	Intra-BS DHO Branch Addn. Resp. IE	Intra-BS DHO Branch Deln. Resp. IE	Intra-BS HHO Initiation. Acpt. IE
Freq. Repl. Without Freq. Ind. in the Same Sector			M*1
Freq. Repl. with Freq. Ind. in the Same Sector			M
Freq. Repl. Without Freq. Ind. in the Same Sector and the Sector Added for Intra-BS DHO	M		
Freq. Repl. with Freq. Ind. in the Same Sector and the Sector Added for Intra-BS DHO	M		
Intra-BS DHO Sector Addn.	M		
Intra-BS DHO Sector Deln.		M	
Inter-sector HHO Without Freq. Addn.			M
Inter-sector HHO with Freq. Addn.			M
Inter-sector HHO Without Freq. Addn. and Intra-BS DHO Sector Addn.	M		M
Inter-sector HHO with Freq. Addn. and Intra-BS DHO Sector Addn.	M		M
ACCH Setup			
ACCH Rel.			
Freq. Repl. (Req. by BTS)			M*1
Code Repl.			

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CONTINUED FROM FIG. 705

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ACCH Setup Resp. IE	ACCH Rel. Resp. IE	Freq. Repl. Resp. IE with Freq. Ind.	Freq. Repl. Req. IE with Freq. Ind.
		M	
		M	
		M	
		M	
M			
	M		
		M*2	M*3

*1 When Activating Radio Resources and Radio Facilities
*2 After Synchronization
*3 When Freq. Repl. Req. by BTS Is Necessary

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FIG. 706

Element Used in Link Facility Message from BTS to NW (BSC Func.) / Use of Link Facility Message	Freq. Repl. Acpt. IE Without Freq. Ind.	Freq. Repl. Resp. IE Without Freq. Ind.	Code Repl. Req. IE	Note
Freq. Repl. Without Freq. Ind. in the Same Sector	M*1	M*2		
Freq. Repl. with Freq. Ind. in the Same Sector				
Freq. Repl. Without Freq. Ind. in the Same Sector and the Sector Added for Intra-BS DHO	M	M		
Freq. Repl. with Freq. Ind. in the Same Sector and the Sector Added for Intra-BS DHO				
Intra-BS DHO Sector Addn.				
Intra-BS DHO Sector Deln.				
Inter-sector HHO Without Freq. Addn.	M	M		
Inter-sector HHO with Freq. Addn.				
Inter-sector HHO Without Freq. Addn. and Intra-BS DHO Sector Addn.	M	M		
Inter-sector HHO with Freq. Addn. and Intra-BS DHO Sector Addn.				
ACCH Setup				
ACCH Rel.				
Freq. Repl. (Req. by BTS)				
Code Repl.			M	

*1 When Activating Radio Resources and Radio Facilities
*2 After Synchronization

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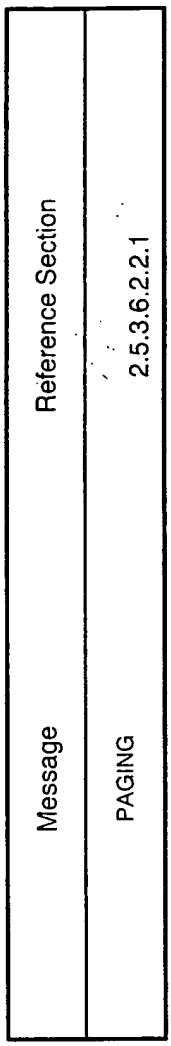


FIG. 707

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FIG. 708

Protocol Discriminator: BSM
Connection Identification: Control Signal Between BTS and NW (BSC Function)
Direction: TACF of NW (BSC Function) to BCFr of BTS

Information Element	Reference Section	Type	Length FV (oct)		Note
Protocol Discriminator	2.5.3.6.3.2.1	M	F	1	
Message Type	2.5.3.6.3.2.2	M	F	1	
PCHs Calculation Info.	2.5.3.6.3.2.3	M	F	4	
Area Number	2.5.3.6.3.2.4	M	F	3	Note 1
Paged MS ID	2.5.3.6.3.2.5	M	V	?-10	Note 2
Paging ID	2.5.3.6.3.2.6	M	F	3	

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FIG. 709

Message: Link Setup or Link Release
Direction: SACF and TACF of NW (BSC Function) to SCMF and BCFr of BTS

Information Element	Reference Section	Type	Length FV (oct)		Note
IE Identifier		M	F	1	
Length		M	F	1	
AAL Type and Link Identifier		M	F	4.5	

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FIG. 710

Message: Link Setup
Direction: TACF of NW (BSC Function) to BCFr of BTS

Information Element	Reference Section	Type	Length FV (oct)		Note
IE Identifier		M	F	1	
Length		M	F	1	
Communication Quality		M	F	1	
Downlink Xmsn Rate		M	F		
Uplink Xmsn Rater		M	F		
Sector Number		M	F	1	
Information Transfer Capability		M	F		
Condition to Select Frequency Band		M	F	1	
Frame Offset Group		M	F	1/2	
Long Code Phase Difference Info.		M	V		
Initial Xmsn Pwr		M	F	1	
Uplink Long Code Number		M	F	6	
Uplink Short Code Type		M	F	1	
Number (N) of Uplink Codes		M	F	1	
1st Uplink Short Code Number		M	F	2	
.					
n-th Uplink Short Code Number		M	F	2	

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FIG. 711

Message: Link Setup
Direction: TACF of NW (BSC Function) to BCFr of BTS

Information Element	Reference Section	Type	Length FV (oct)		Note
IE Identifier		M	F	1	
Length		M	F	1	
Communication Quality		M	F	1	
Downlink Xmsn Rate		M	F		
Uplink Xmsn Rate		M	F		
Sector Number		M	F	1	
Information Transfer Capability		M	F		
Condition to Select Frequency Band		M	F	1	
Frame Offset Group		M	F	1/2	
Slot Offset Group		M	F	1/2	
Long Code Phase Difference Info.		M	V		
Initial Xmsn Pwr		M	F	1	
Uplink Long Code Number		M	F	6	
Uplink Short Code Type		M	F	1	
Number (N) of Uplink Codes		M	F	1	
1st Uplink Short Code Number		M	F	2	
.					
n-th Uplink Short Code Number		M	F	2	

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FIG. 712

Message: Link Setup
Direction: TACF of NW (BSC Function) to BCFr of BTS

Information Element	Reference Section	Type	Length FV (oct)		Note
IE Identifier		M	F	1	
Length		M	F	1	
Communication Quality		M	F	1	
Downlink Xmsn Rate		M	F		
Uplink Xmsn Rate		M	F		
Sector Number		M	F	1	
Information Transfer Capability		M	F		
Frequency Band		M	F	1	
Frame Offset Group		M	F	1/2	
Slot Offset Group		M	F	1/2	
Long Code Phase Difference Info.		M	V		
Initial Xmsn Pwr		M	F	1	
Uplink Long Code Number		M	F	6	
Uplink Short Code Type		M	F	1	
Number (N) of Uplink Codes		M	F	1	
1st Uplink Short Code Number		M	F	2	
.					
n-th Uplink Short Code Number		M	F	2	

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FIG. 713

Message: Link Setup
Direction: TACF of NW (BSC Function) to BCFr of BTS

Information Element	Reference Section	Type	Length FV (oct)		Note
IE Identifier		M	F	1	
Length		M	F	1	
Communication Quality		M	F	1	
Downlink Xmsn Rate		M	F		
Uplink Xmsn Rate		M	F		
Sector Number		M	F	1	
Information Transfer Capability		M	F		
Frequency Band		M	F	1	
Frame Offset Group		M	F	1/2	
Slot Offset Group		M	F	1/2	
Long Code Phase Difference Info.		M	V		
Initial Xmsn Pwr		M	F	1	
Uplink Long Code Number		M	F	6	
Uplink Short Code Type		M	F	1	
Number (N) of Uplink Codes		M	F	1	
1st Uplink Short Code Number		M	F	2	
.					
n-th Uplink Short Code Number		M	F	2	
Downlink Short Code Type		M	F	1	
Number (N) of Downlink Codes		M	F	1	

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FIG. 714

Message: Link Setup or Link Facility from NW (BSC Function) to BTS
Direction: TACF of NW (BSC Function) to BCFr of BTS

Information Element	Reference Section	Type	Length FV (oct)		Note
IE Identifier		M	F	1	
Length		M	F	1	
Sector Number		M	F	1	

FIG. 715

Message: Link Setup or Link Facility from NW (BSC Function) to BTS
Direction: TACF of NW (BSC Function) to BCFr of BTS

Information Element	Reference Section	Type	Length FV (oct)		Note
IE Identifier		M	F	1	
Length		M	F	1	
AAL Type and Link Identifier for ACCH		M	F	4.5	
Communication Quality for ACCH		M	F	1	
Downlink Xmsn Rate for ACCH		M	F		
Uplink Xmsn Rate for ACCH		M	F		

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FIG. 716

Message: Link Setup Proceeding
Direction: BCFr of BTS to TACF of NW (BSC Function)

Information Element	Reference Section	Type	Length FV (oct)		Note
IE Identifier		M	F	1	
Length		M	F	1	
Frequency Band		M	F	1	
Slot Offset Group		O	F	1/2	Mandatory for the 1st Call Attempt and Acceptance
Downlink Short Code Type		M	F	1	
Number (N) of Downlink Codes		M	F	1	
1st Downlink Short Code Number		M	F	2	
.					
n-th Downlink Short Code Number		M	F	2	
Result		M	F	1	

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FIG. 717

Message: Link Setup Proceeding
Direction: BCFr of BTS to TACF of NW (BSC Function)

Information Element	Reference Section	Type	Length FV (oct)		Note
IE Identifier		M	F	1	
Length		M	F	1	
Frequency Band		M	F	1	
Downlink Short Code Type		M	F	1	
Number (N) of Downlink Codes		M	F	1	
1st Downlink Short Code Number		M	F	2	
.					
n-th Downlink Short Code Number		M	F	2	
Result		M	F	1	

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FIG. 718

Message: Link Setup Proceeding
Direction: BCFr of BTS to TACF of NW (BSC Function)

Information Element	Reference Section	Type	Length FV (oct)		Note
IE Identifier		M	F	1	
Length		M	F	1	
Downlink Short Code Type		M	F	1	
Number (N) of Downlink Codes		M	F	1	
1st Downlink Short Code Number		M	F	2	
.					
n-th Downlink Short Code Number		M	F	2	
Result		M	F	1	

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FIG. 719

Message: Link Setup Response
Direction: BCFr of BTS to TACF of NW (BSC Function)

Information Element	Reference Section	Type	Length FV (oct)		Note
IE Identifier		M	F	1	
Length		M	F	1	
.					

FIG. 720

Message: Link Setup Response
Direction: BCFr of BTS to TACF of NW (BSC Function)

Information Element	Reference Section	Type	Length FV (oct)		Note
IE Identifier		M	F	1	
Length		M	F	1	
Result		M	F	1	

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FIG. 726

Message: Link Facility
Direction: TACF of NW (BSC Function) to BCFr of BTS

Information Element	Reference Section	Type	Length FV (oct)		Note
IE Identifier		M	F	1	
Length		M	F	1	
Sector Number		M	F	1	

FIG. 727

Message: Link Facility
Direction: TACF of NW (BSC Function) to BCFr of BTS

Information Element	Reference Section	Type	Length FV (oct)		Note
IE Identifier		M	F	1	
Length		M	F	1	
Sector Number		M	F	1	

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FIG. 728

Message: Link Facility
Direction: TACF of NW (BSC Function) to BCFr of BTS

Information Element	Reference Section	Type	Length FV (oct)		Note
IE Identifier		M	F	1	
Length		M	F	1	
AAL Type and Link Identifier for ACCH		M	F	4.5	

FIG. 729

Message: Link Facility
Direction: TACF of NW (BSC Function) to BCFr of BTS

Information Element	Reference Section	Type	Length FV (oct)		Note
IE Identifier		M	F	1	
Length		M	F	1	
Condition to Select Frequency Band		M	F	1	

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FIG. 730

Message: Link Facility
Direction: TACF of NW (BSC Function) to BCFr of BTS

Information Element	Reference Section	Type	Length FV (oct)		Note
IE Identifier		M	F	1	
Length		M	F	1	
Frequency Band		M	F	1	

FIG. 731

Message: Link Facility
Direction: TACF of NW (BSC Function) to BCFr of BTS

Information Element	Reference Section	Type	Length FV (oct)		Note
IE Identifier		M	F	1	
Length		M	F	1	
Result		M	F	1	

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FIG. 732

Message: Link Facility
Direction: BCFr of BTS to TACF of NW (BSC Function)

Information Element	Reference Section	Type	Length FV (oct)		Note
IE Identifier		M	F	1	
Length		M	F	1	
Sector Number		M	F	1	
Result		M	F	1	

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FIG. 733

Message: Link Facility
Direction: BCFr of BTS to TACF of NW (BSC Function)

Information Element	Reference Section	Type	Length FV (oct)		Note
IE Identifier		M	F	1	
Length		M	F	1	
Sector Number		M	F	1	
Number (N) of Downlink Codes		M	F	1	
1st Downlink Short Code Number		M	F	2	
.					
n-th Downlink Short Code Number		M	F	2	
Result		M	F	1	

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FIG. 734

Message: Link Facility
Direction: BCFr of BTS to TACF of NW (BSC Function)

Information Element	Reference Section	Type	Length FV (oct)		Note
IE Identifier		M	F	1	
Length		M	F	1	
Result		M	F	1	

FIG. 735

Message: Link Facility
Direction: BCFr of BTS to TACF of NW (BSC Function)

Information Element	Reference Section	Type	Length FV (oct)		Note
IE Identifier		M	F	1	
Length		M	F	1	
Result		M	F	1	

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FIG. 736

Message: Link Facility
Direction: BCFr of BTS to TACF of NW (BSC Function)

Information Element	Reference Section	Type	Length FV (oct)		Note
IE Identifier		M	F	1	
Length		M	F	1	
Frequency Band		M	F	1	
Number (N) of Downlink Codes		M	F	1	
1st Downlink Short Code Number		M	F	2	
.					
n-th Downlink Short Code Number		M	F	2	
Result		M	F	1	

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FIG. 737

Message: Link Facility
Direction: BCFr of BTS to TACF of NW (BSC Function)

Information Element	Reference Section	Type	Length FV (oct)		Note
IE Identifier		M	F	1	
Length		M	F	1	
Frequency Band		M	F	1	
Result		M	F	1	

FIG. 738

Message: Link Facility
Direction: BCFr of BTS to TACF of NW (BSC Function)

Information Element	Reference Section	Type	Length FV (oct)		Note
IE Identifier		M	F	1	
Length		M	F	1	
Result		M	F	1	

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FIG. 739

Message: Link Facility
Direction: BCFr of BTS to TACF of NW (BSC Function)

Information Element	Reference Section	Type	Length FV (oct)		Note
IE Identifier		M	F	1	
Length		M	F	1	
Frequency Band		M	F	1	
Number (N) of Downlink Codes		M	F	1	
1st Old Downlink Short Code Number		M	F	2	
1st New Downlink Short Code Number		M	F	2	
.					
n-th Old Downlink Short Code Number		M	F	2	
n-th New Downlink Short Code Number		M	F	2	

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FIG. 740

Message: Link Release
Direction: TACF of NW (BSC Function) to BCFr of BTS

Information Element	Reference Section	Type	Length FV (oct)		Note
IE Identifier		M	F	1	
Length		M	F	1	
Cause		M	F	1	

FIG. 741

Message: Link Release Complete
Direction: TACF and SACF of NW (BSC Function) to SCMF of BTS

Information Element	Reference Section	Type	Length FV (oct)		Note
IE Identifier		M	F	1	
Length		M	F	1	
Cause		M	F	1	

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FIG. 742

Message: Link Release Complete
Direction: BCFr of BTS to TACF of NW (BSC Function)
SACF and TACF of NW (BSC Function) to SCMF of BTS

Information Element	Reference Section	Type	Length FV (oct)		Note
IE Identifier		M	F	1	
Length		M	F	1	
Cause		M	F	1	

FIG. 743

Message: Link Setup Requested
Direction: TACF of NW (BSC Function) to BCFr of BTS

Information Element	Reference Section	Type	Length FV (oct)		Note
IE Identifier		M	F	1	
Length		M	F	1	
AAL Type		M	F	1/2	
Communication Quality		M	F	1	

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FIG. 744

Message: Link Setup Requested
Direction: SCMF of BTS to SACF and TACF of MSCNW (BSC Function)

Information Element	Reference Section	Type	Length FV (oct)		Note
IE Identifier		M	F	1	
Length		M	F	1	
Location Identity		M	F	1	

FIG. 745

Protocol Discriminator (Octet 1) Bit Pattern 8 7 6 5 4 3 2 1 1 0 0 0 0 1 1 0 BC (Bearer Control)

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FIG. 746

Protocol Discriminator (Octet 1)

Bit Pattern
4 3 2 1
0 0 0 0

LINK SETUP REQUESTED
LINK SETUP
LINK SETUP PROCEEDING
LINK SETUP RESPONSE
LINK RELEASE
LINK RELEASE COMPLETE
LINK FACILITY (FROM BSC FUNCTION OF NETWORK TO BS)
LINK FACILITY (FROM BS TO BSC FUNCTION OF NETWORK)

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FIG. 747

Protocol Discriminator (Octet 1)	
Bit Pattern 8 7 6 5 4 3 2 1	
1 0 0 0 1 0 0 0	BSM (BS Management)

FIG. 748

Message Type (Octet 1)	
Bit Pattern 4 3 2 1	
0 0 0 0	Escape Code for a Nationally Specific Message
0 0 0 1	Paging

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FIG. 749

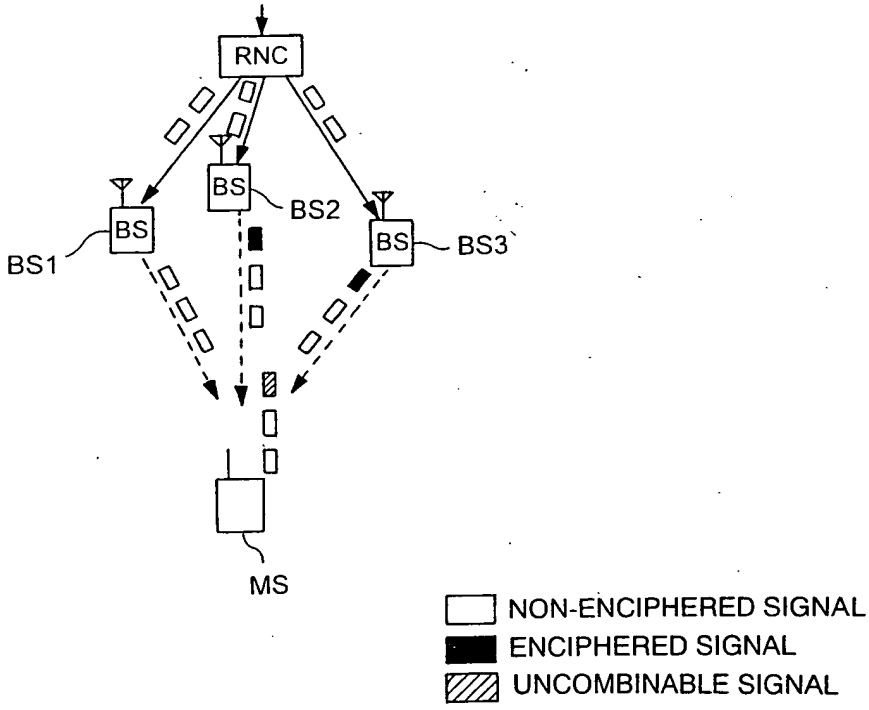
Number Type (Octet 3)	
Bit Pattern	
8	TMUI
1	Intger IMUI

FIG. 750

Number Length (Octet 3)	
Bit Pattern	
3 2 1	
1 0 0	Four Octets (Length of the TMUI)
1 1 1	Seven Octets (Maximum Length of the Integer IMUI)

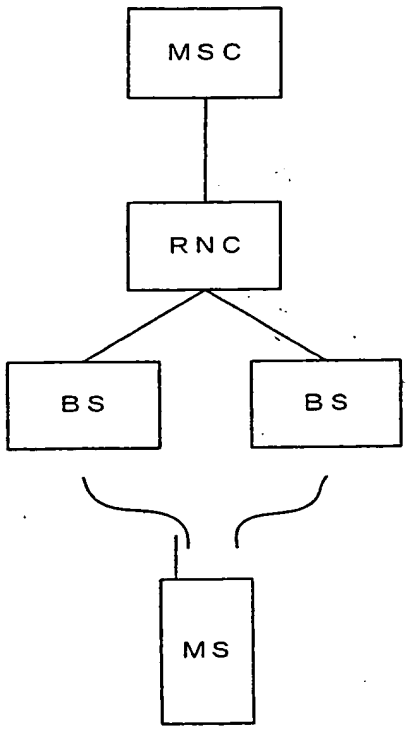
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FIG. 752



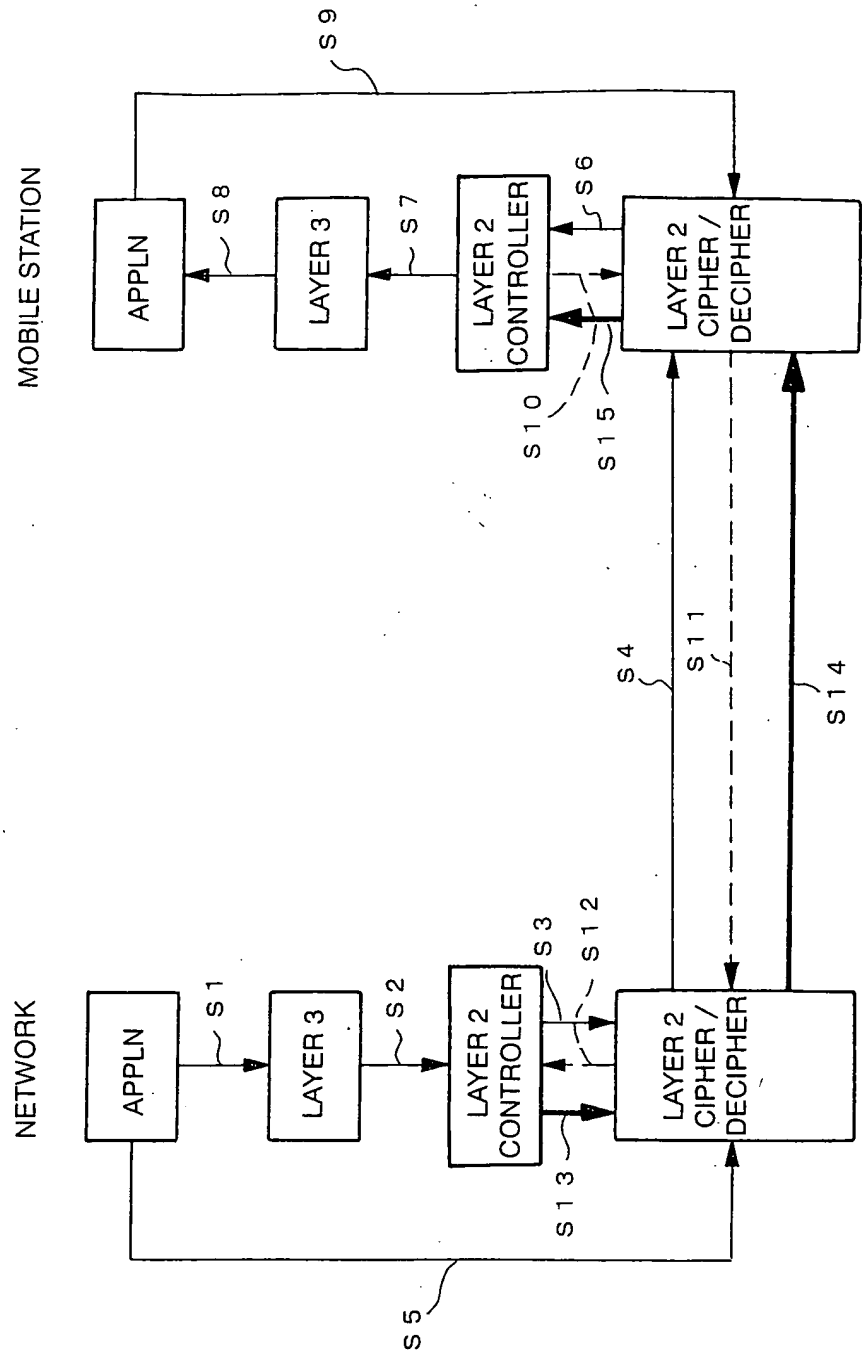
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FIG. 753



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FIG. 754



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FIG. 755

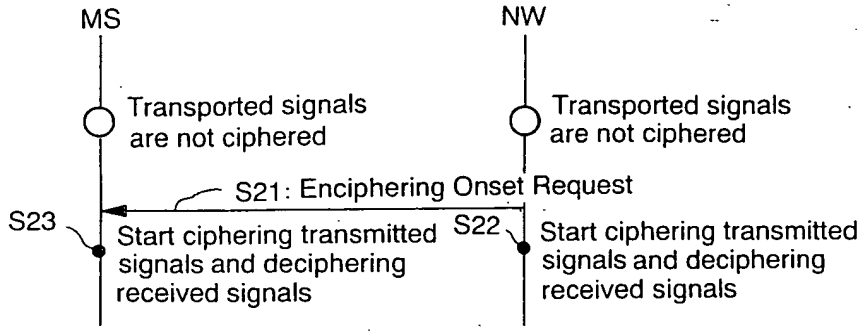
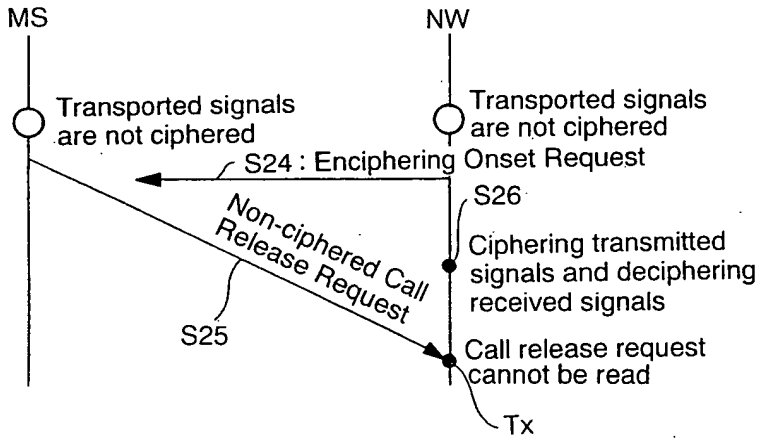


FIG. 756



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FIG. 757

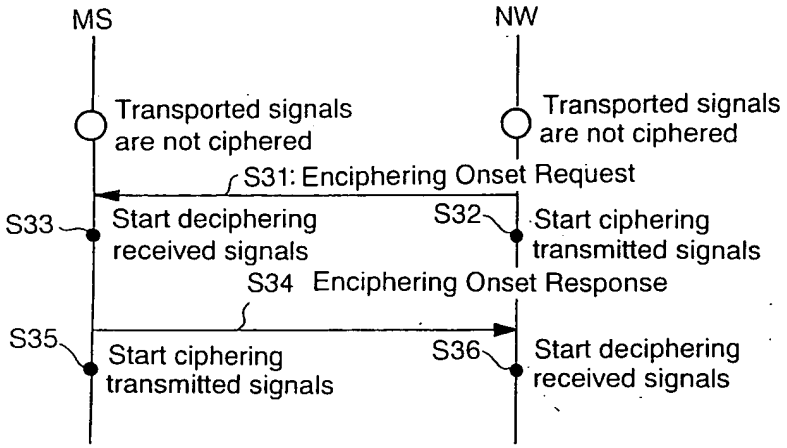
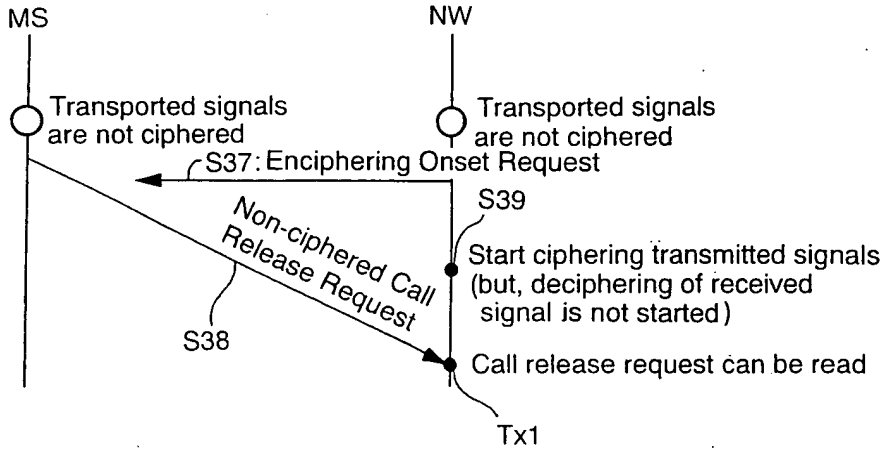


FIG. 758



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FIG. 759

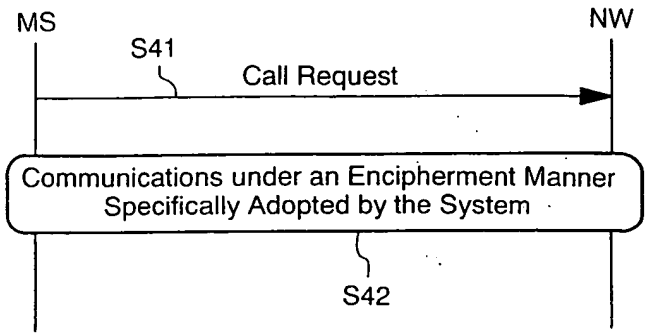
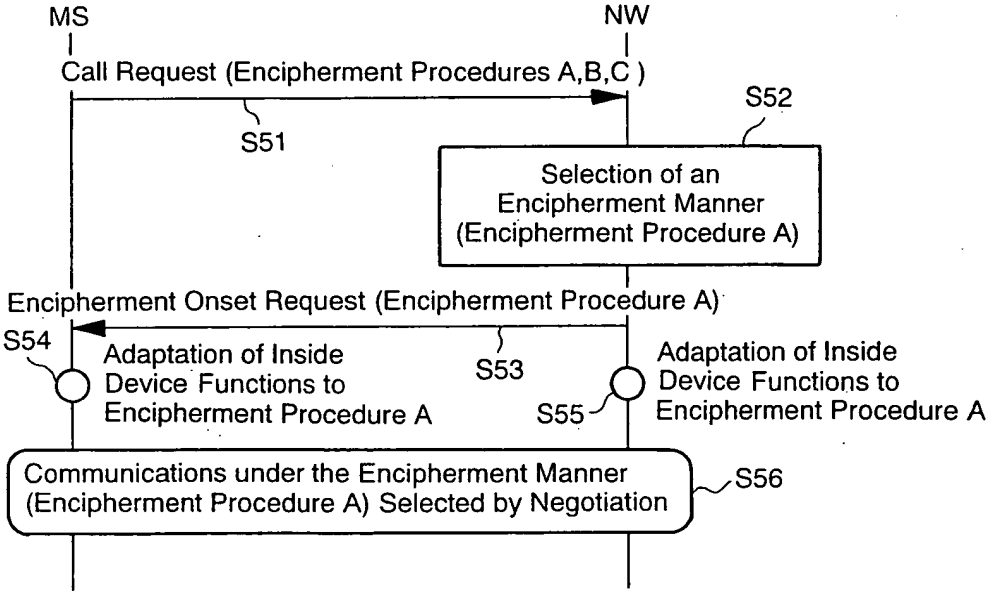


FIG. 760

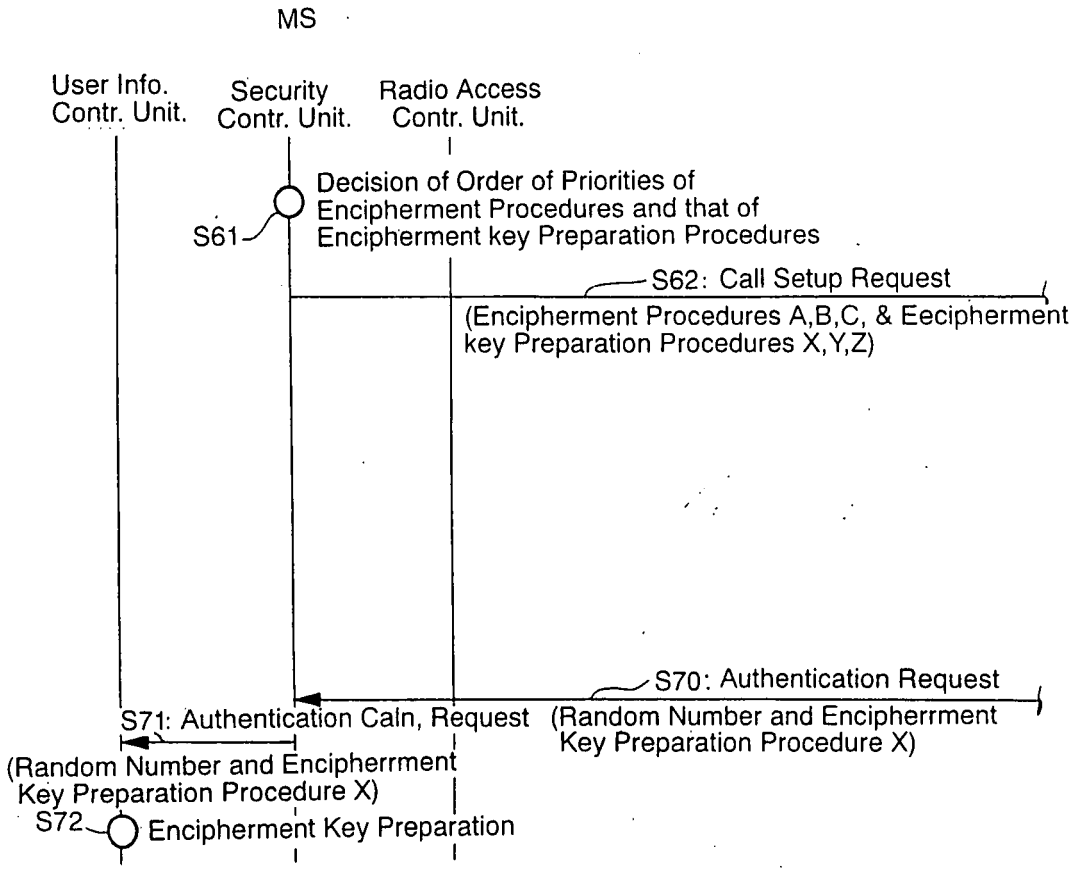


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FIG. 761



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CONTINUING FIG. 761

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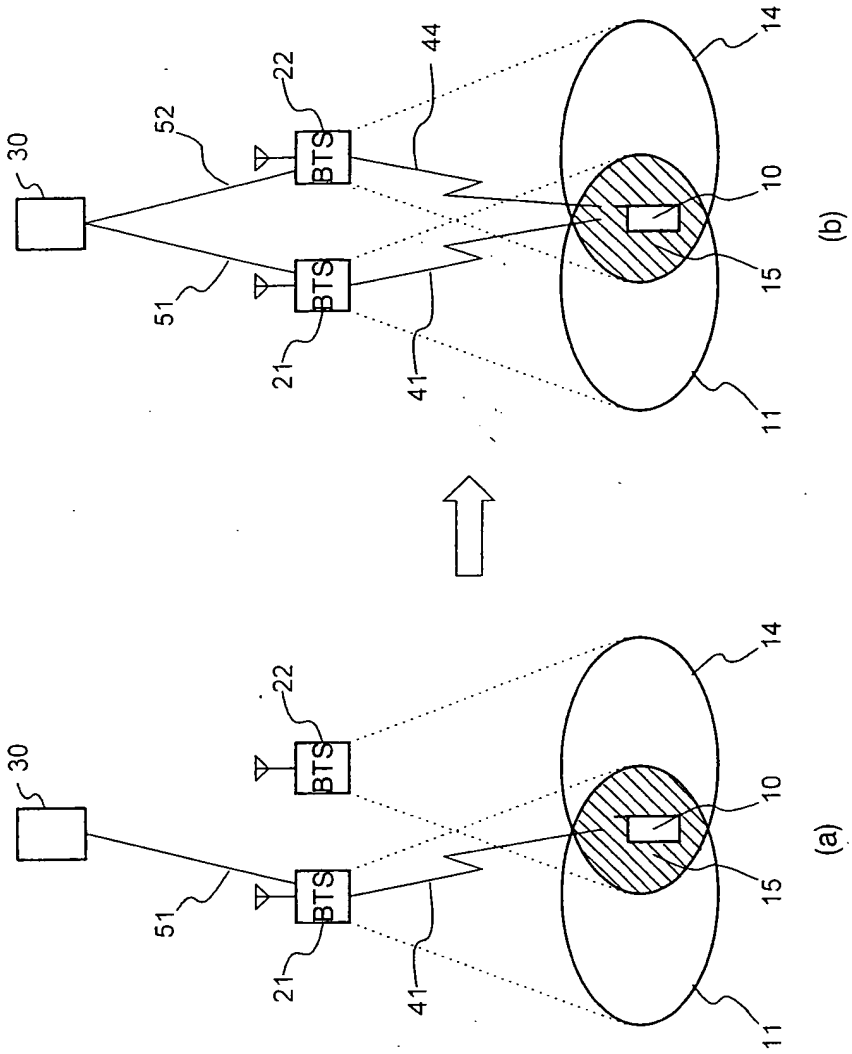
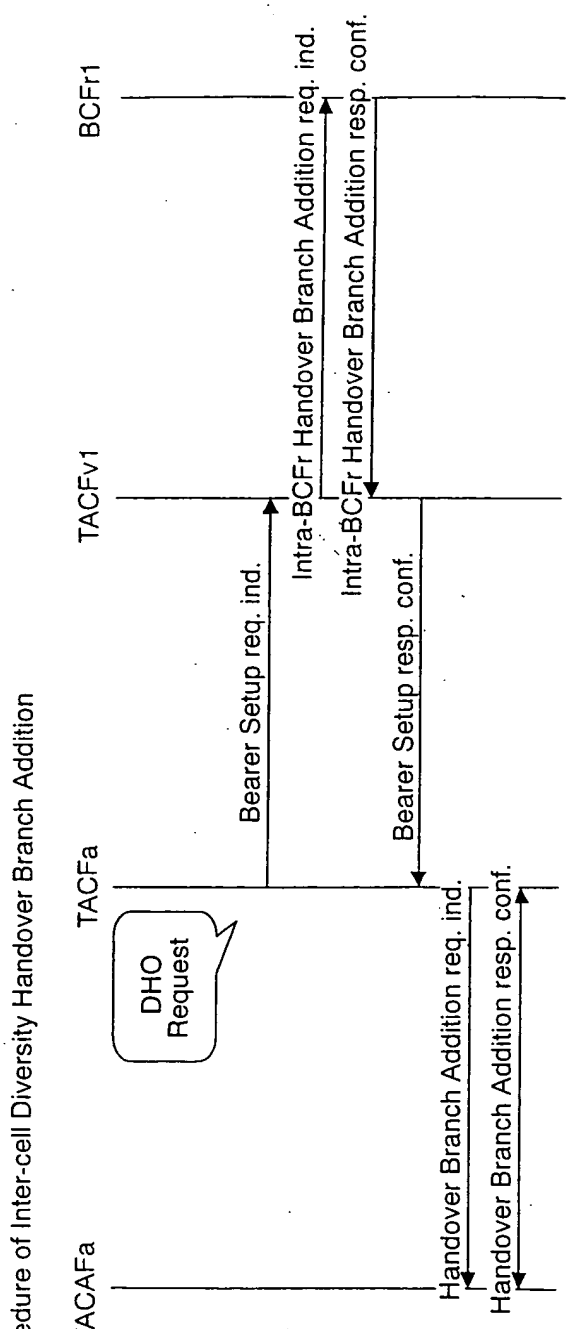


FIG. 764

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FIG. 766



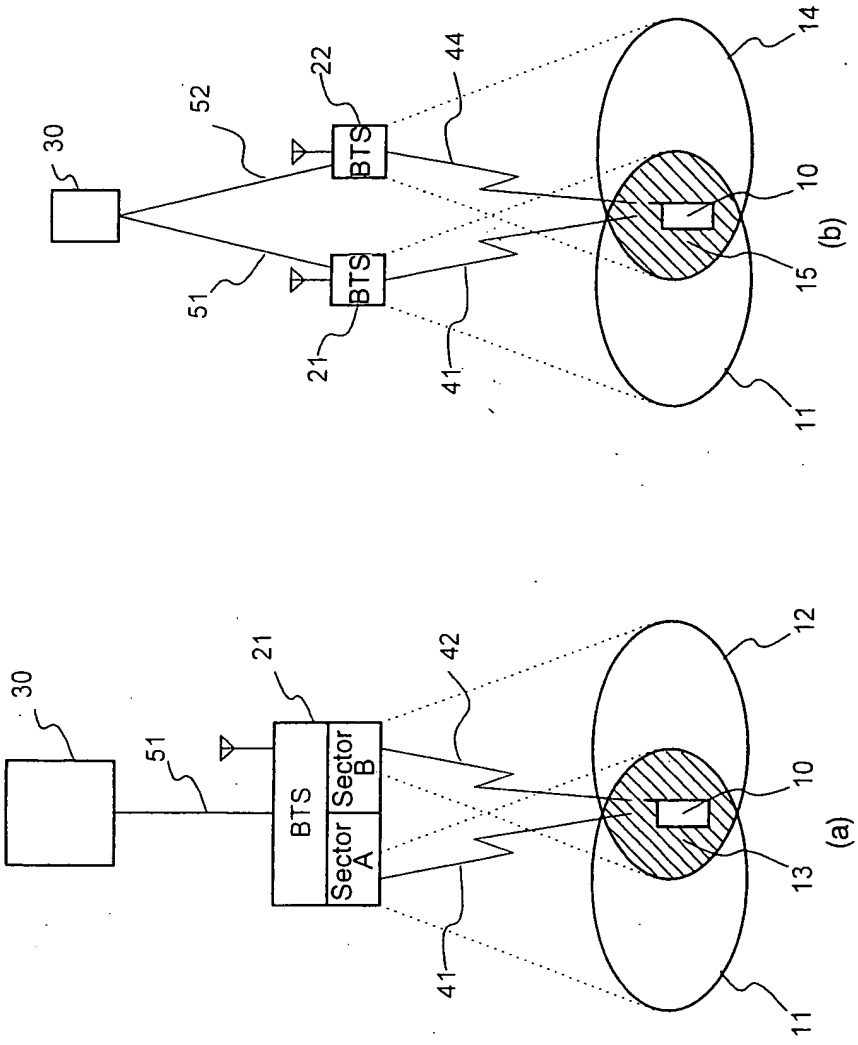
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FIG. 767

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FIG. 768

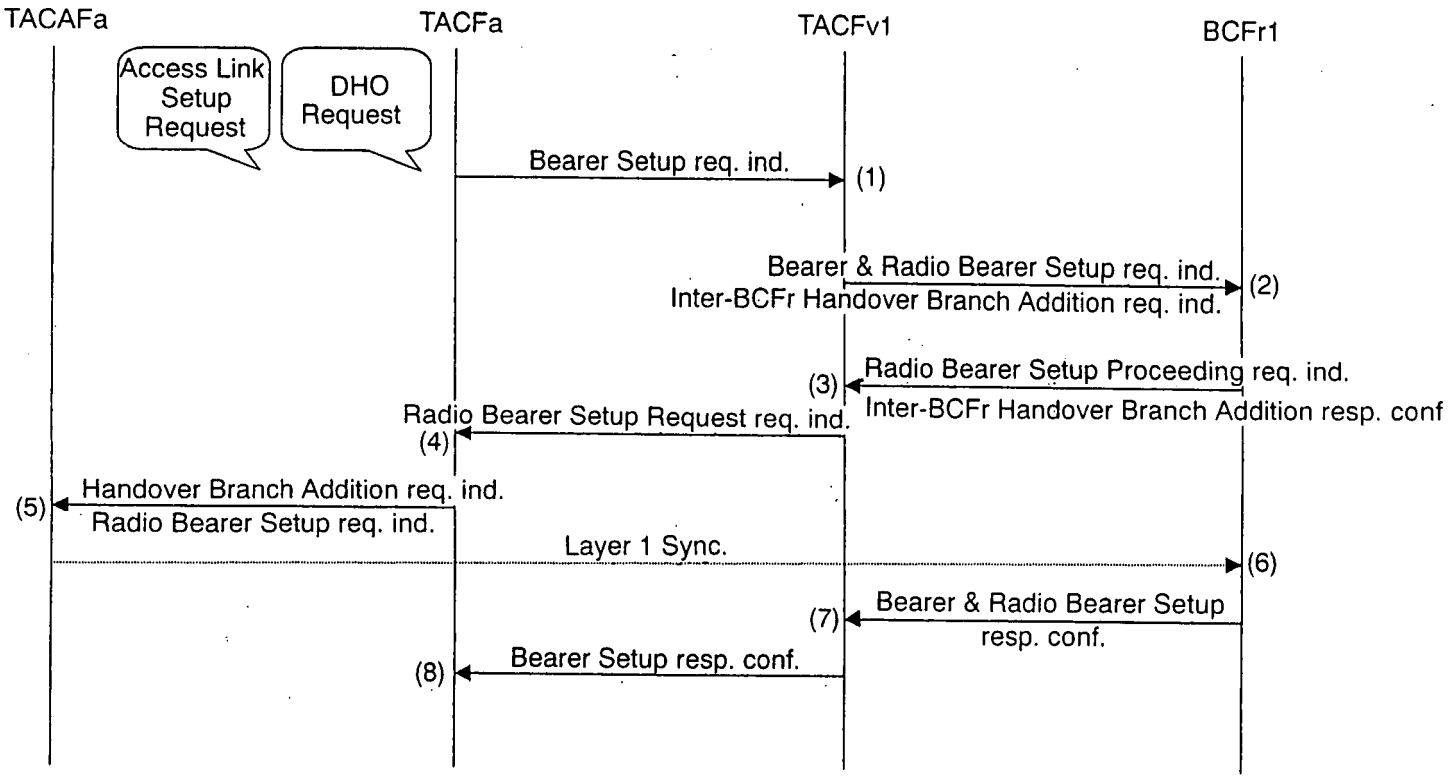


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FIG. 769

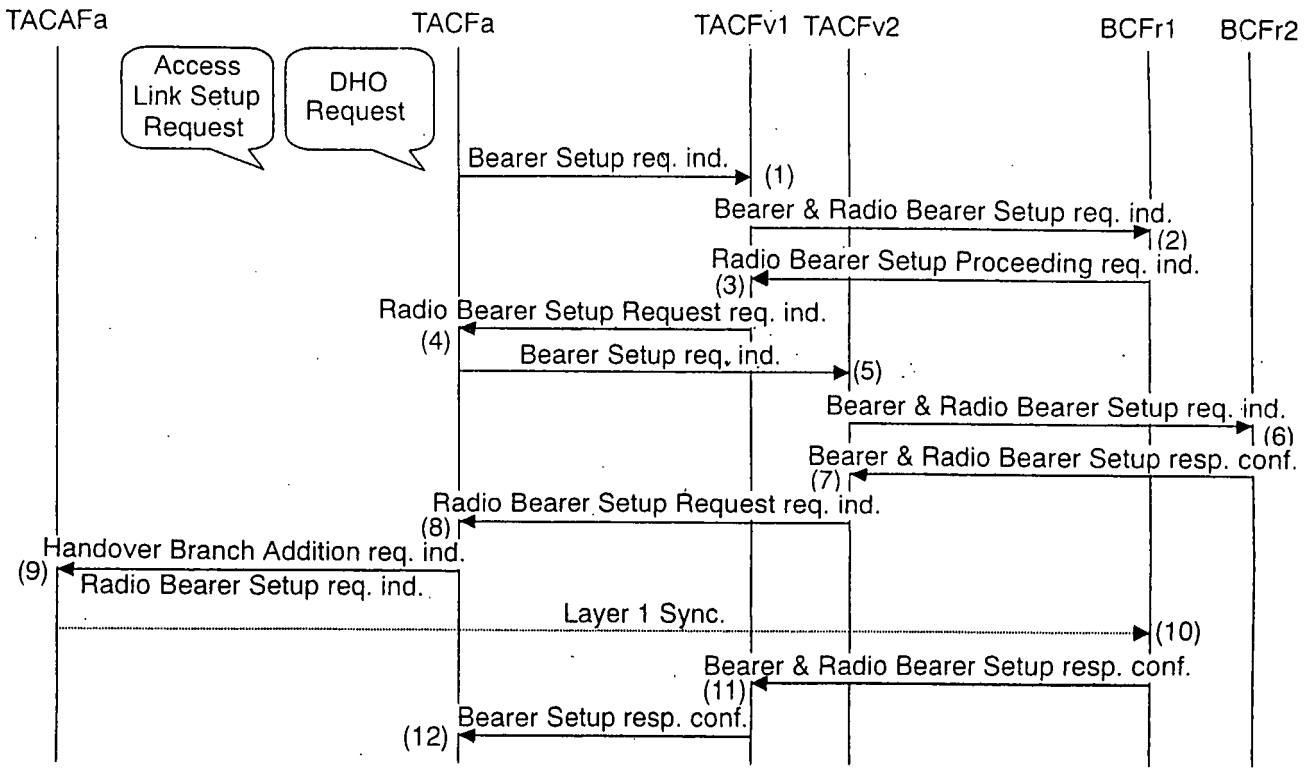
Simultaneous Execution of Access Link Setup And Inter-cell Diversity Handover Branch Addition



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FIG. 770

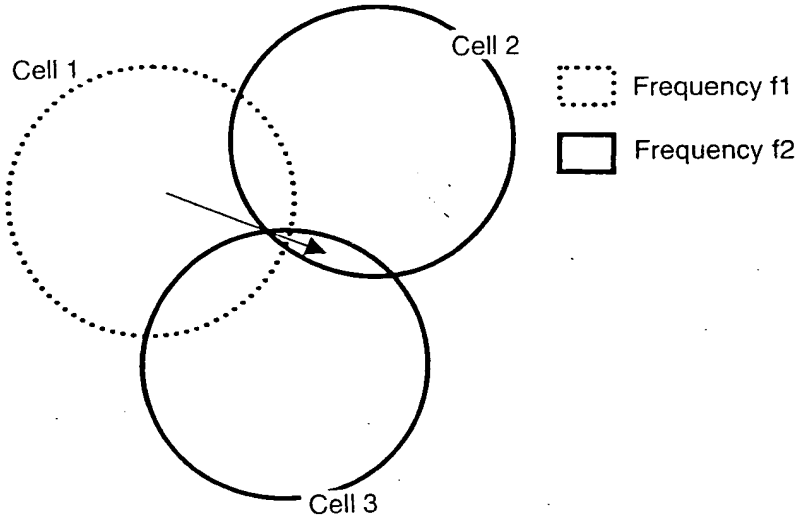
Simultaneous Execution of Access Link Setup And Inter-cell Diversity Handover



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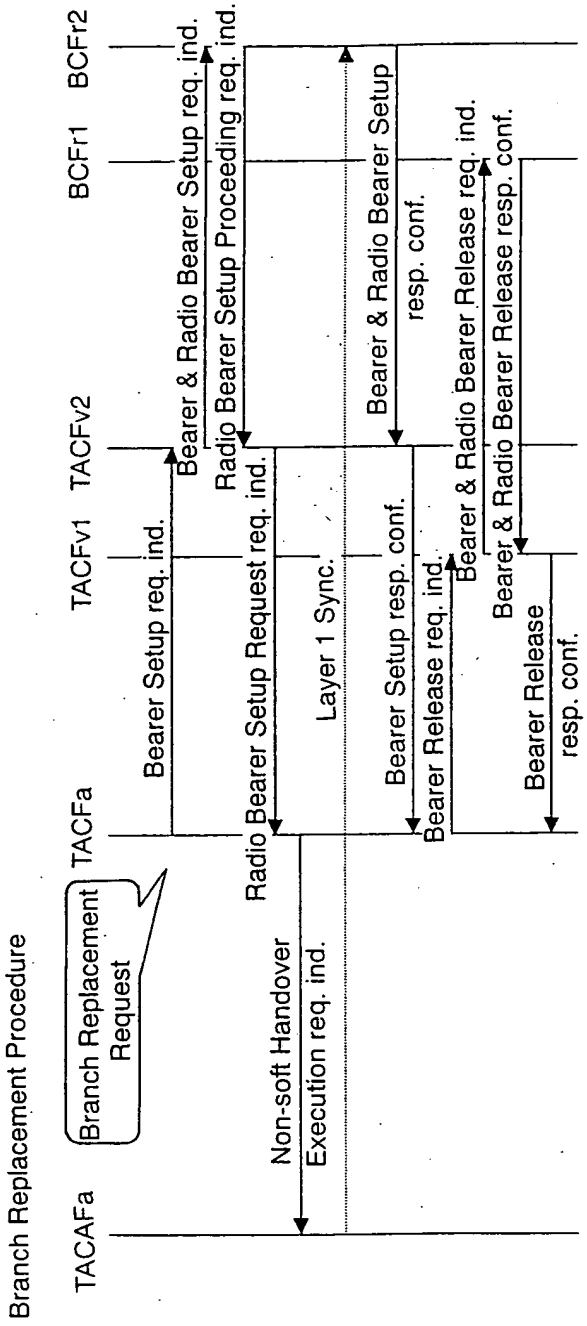
FIG. 771



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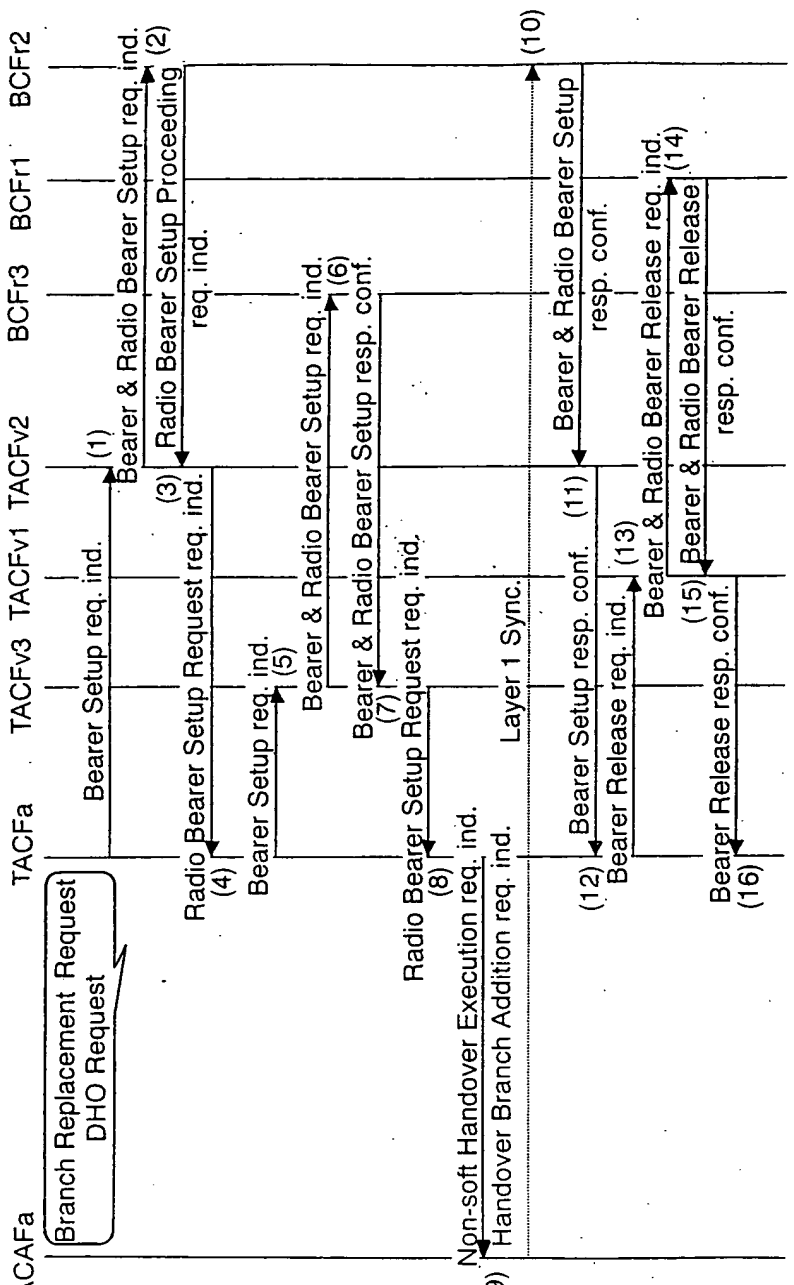
FIG. 772



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FIG. 773

Simultaneous Execution of Branch Replacement And Diversity Handover Branch Addition



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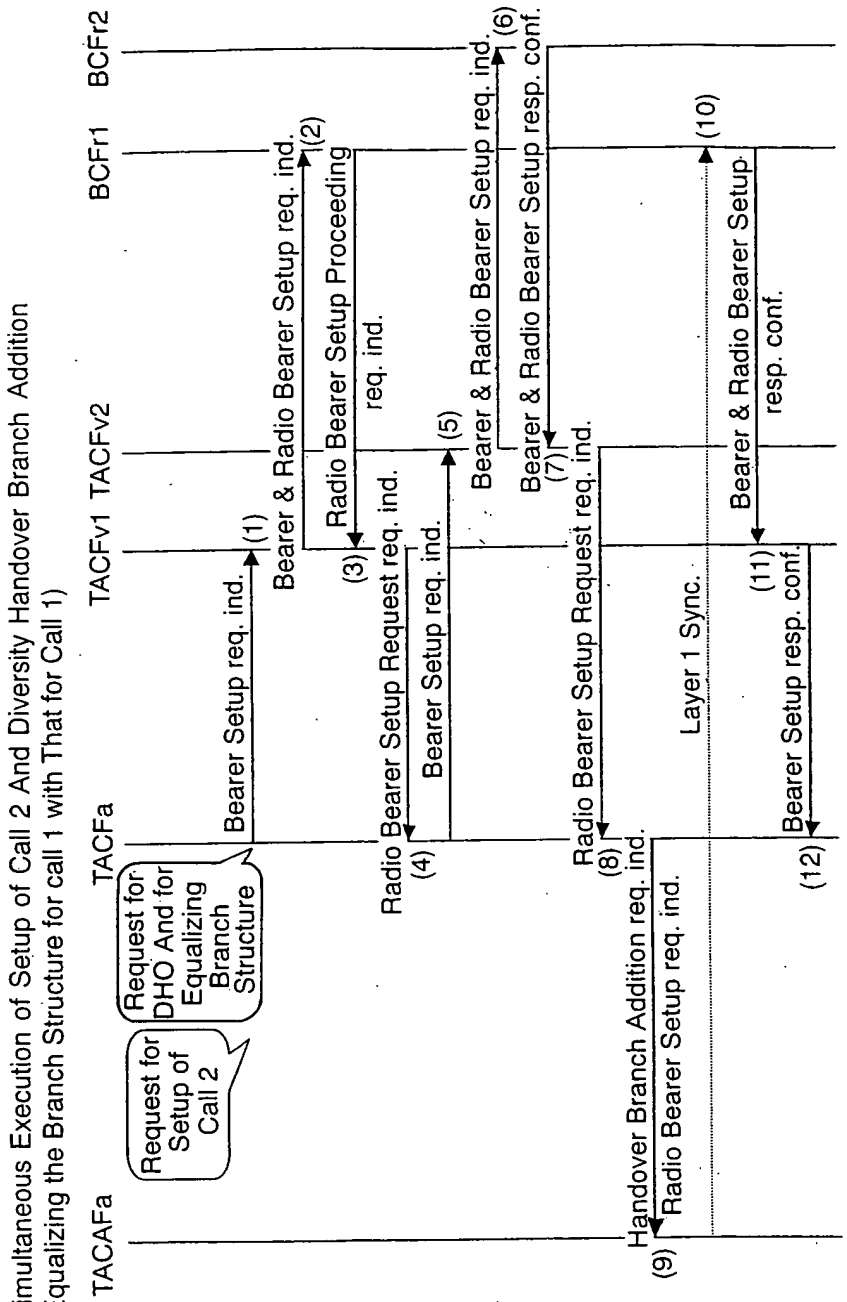
FIG. 774

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FIG. 775

Simultaneous Execution of Setup of Call 2 And Diversity Handover Branch Addition
(Equalizing the Branch Structure for call 1 with That for Call 1)



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FIG. 776

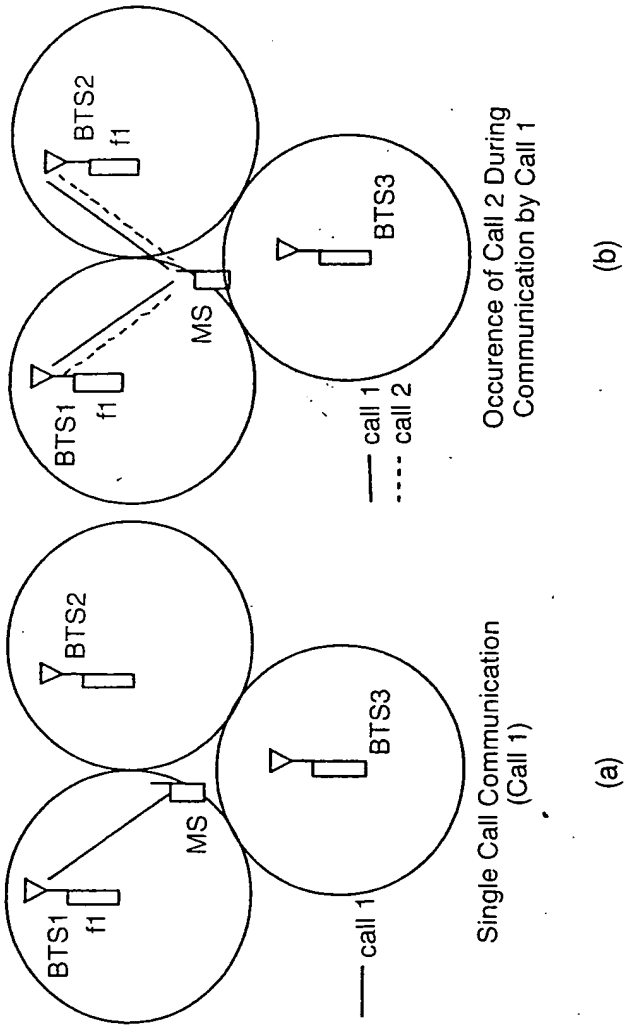


FIG. 777

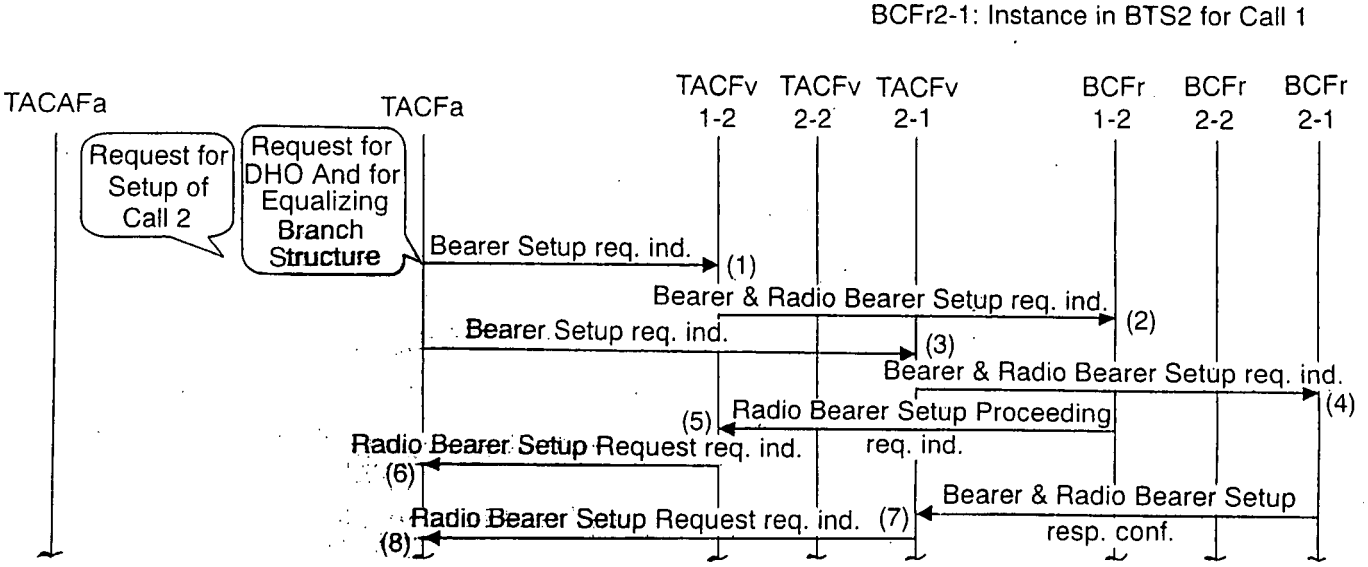
BTS1
f1
MS
BTS2
BTS3
call 1
Single Call Communication
(Call 1)
(a)
BTS1
MS
BTS2
f2
BTS3
call 1
call 2
Occurence of Call 2 During
Communication by Call 1
(b)

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FIG. 778

Simultaneous Execution of Setup of Call 2 And Diversity Handover Branch Addition (Changing the Branch Structure for Call1 And Equalizing the Branch Structure for Call 2 with That for Call 1)



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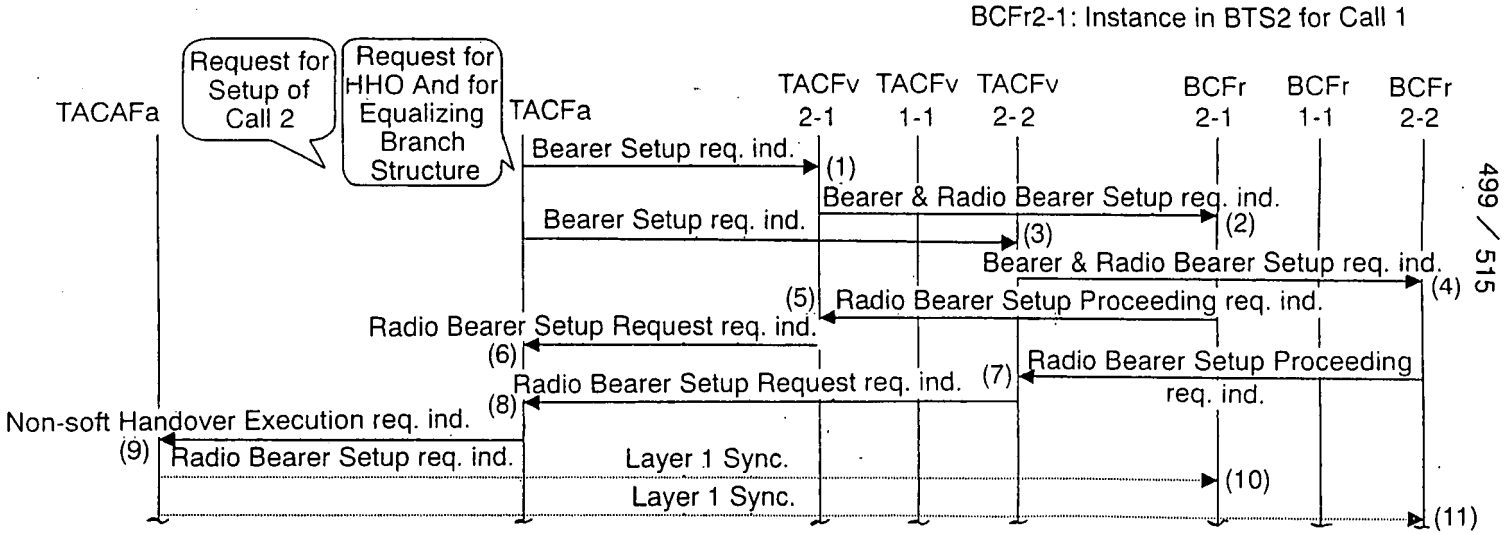
CONTINUED FROM FIG. 778

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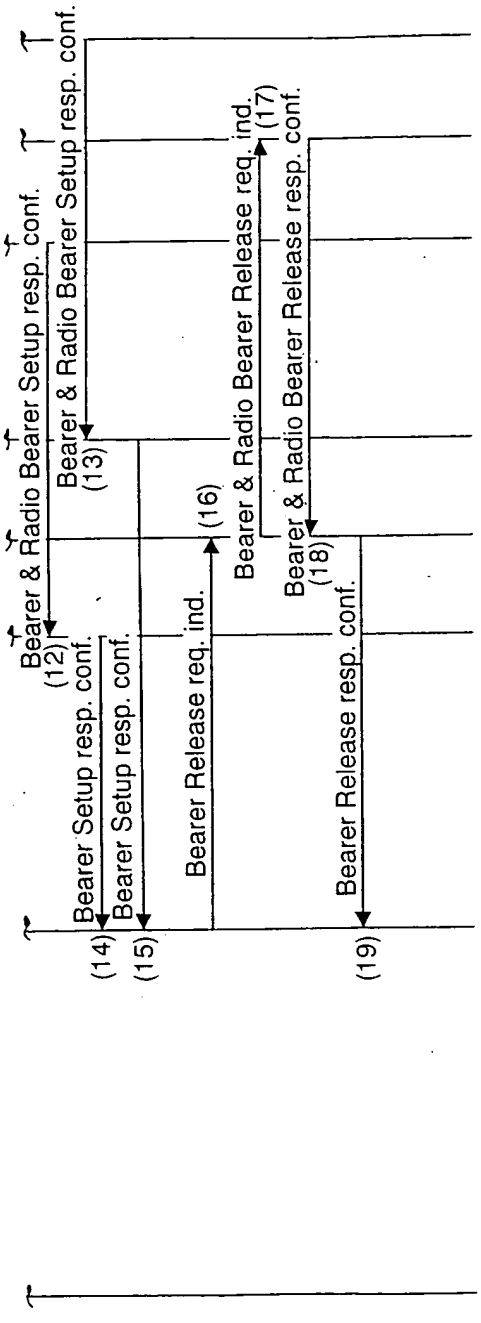
FIG. 779

Simultaneous Execution of Setup of Call 2 And Branch Replacement Handover from BTS1 to BTS2 (Changing the Branch Structure for call 1 And Equalizing the Branch Structure for Call 2 with That for Call 1)



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CONTINUED FROM FIG. 779



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FIG. 780

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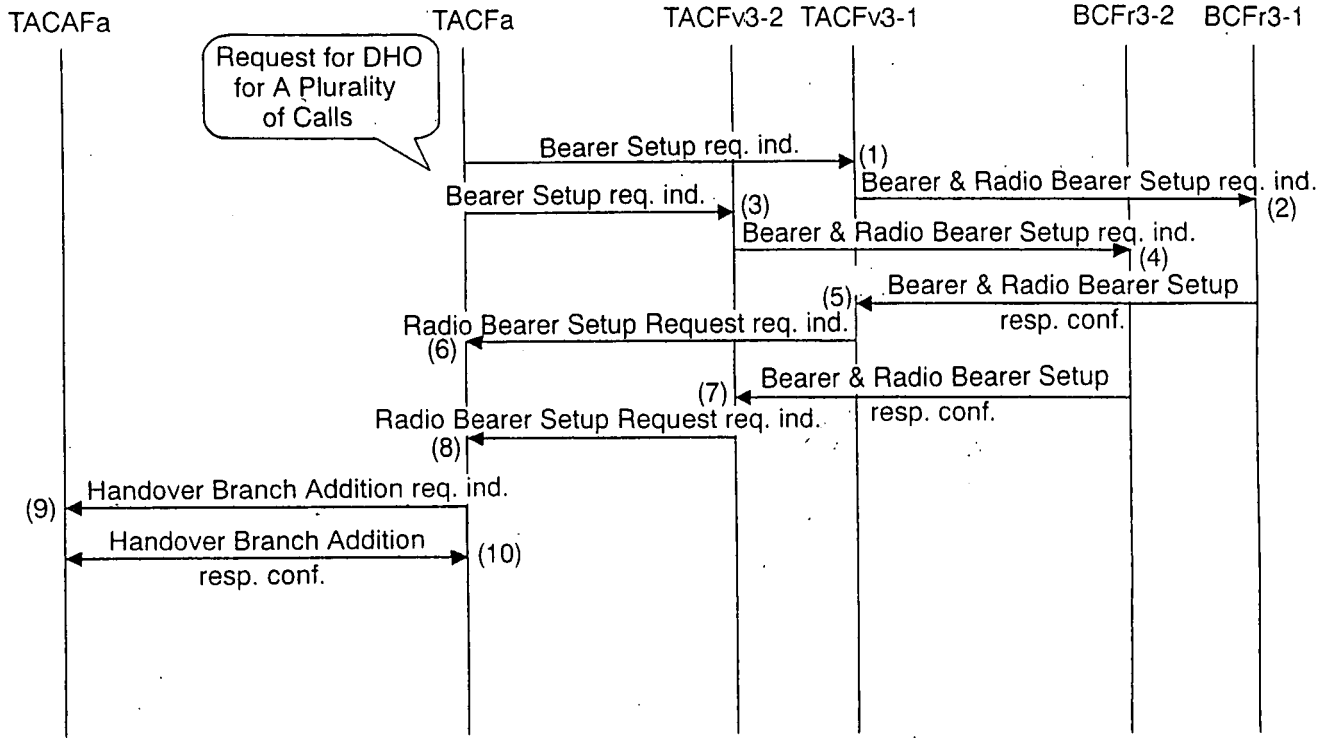
FIG. 781

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FIG. 782

Procedure of DHO Branch Addition Corresponding to BTS3 for A Plurality of Calls 1 and 2

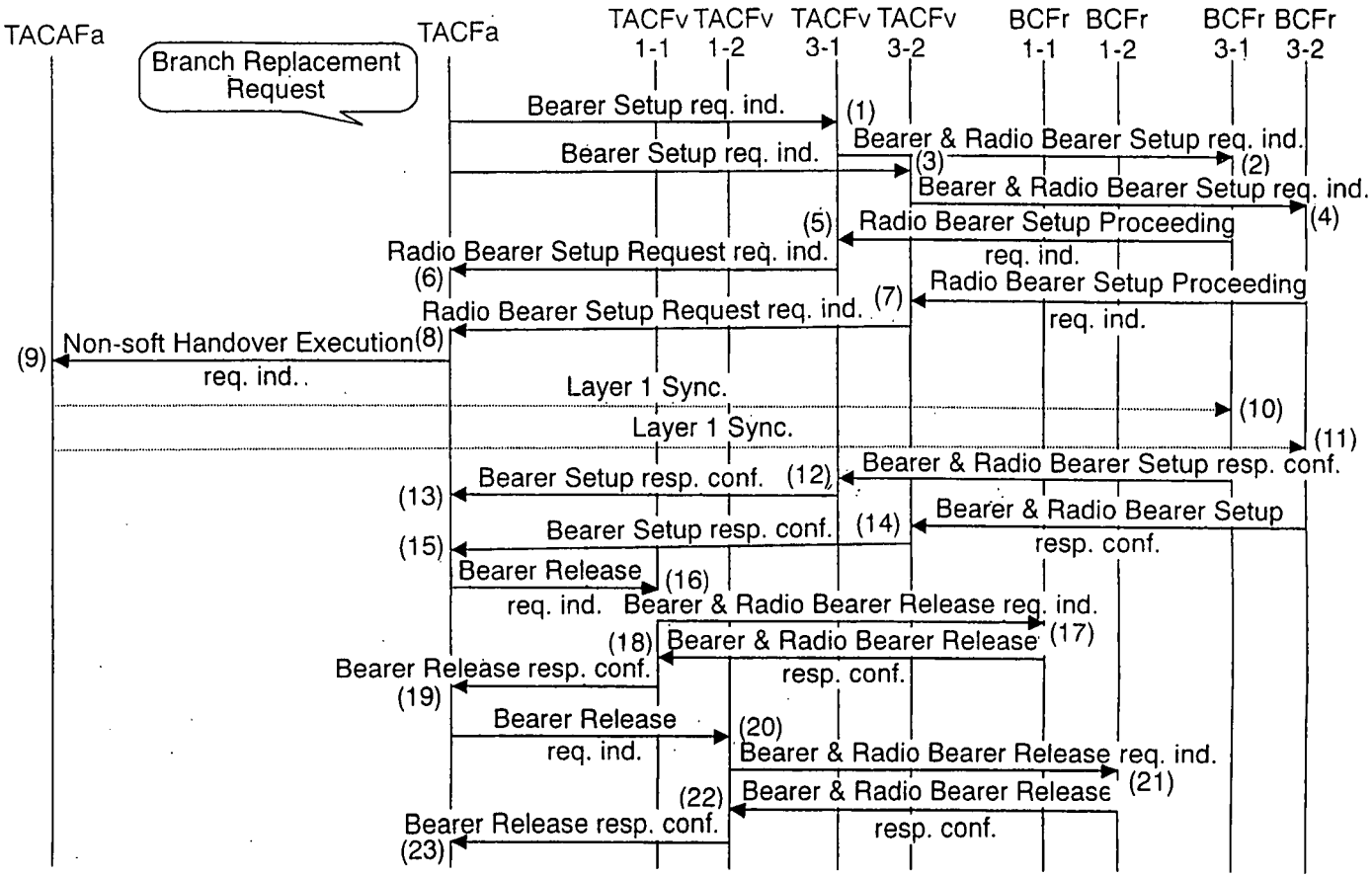


BCFr3-2: Instance in BTS3 for Call2

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FIG. 783

Procedure of Branch Replacement Handover from BTS1 to BTS3 for A Plurality of Calls 1 and 2



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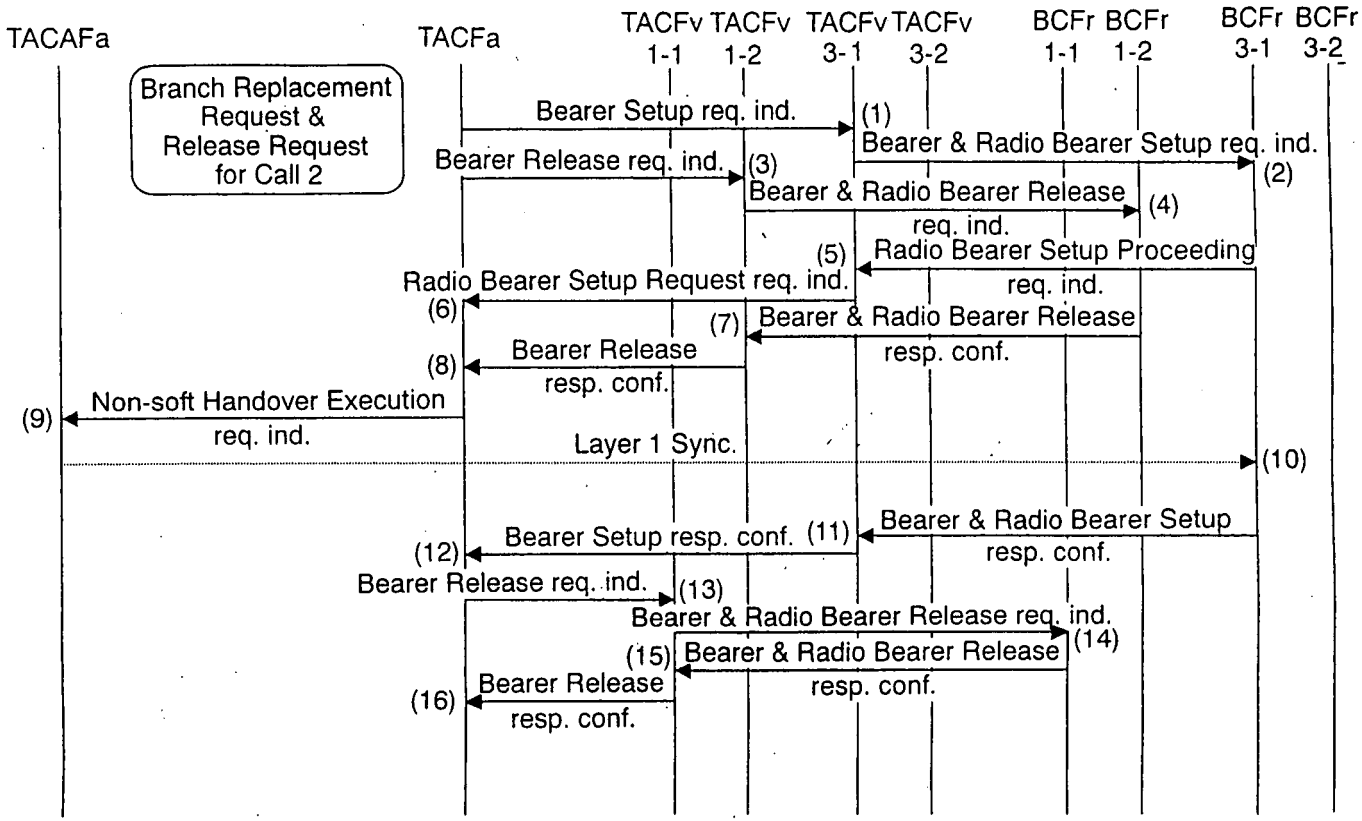
FIG. 784

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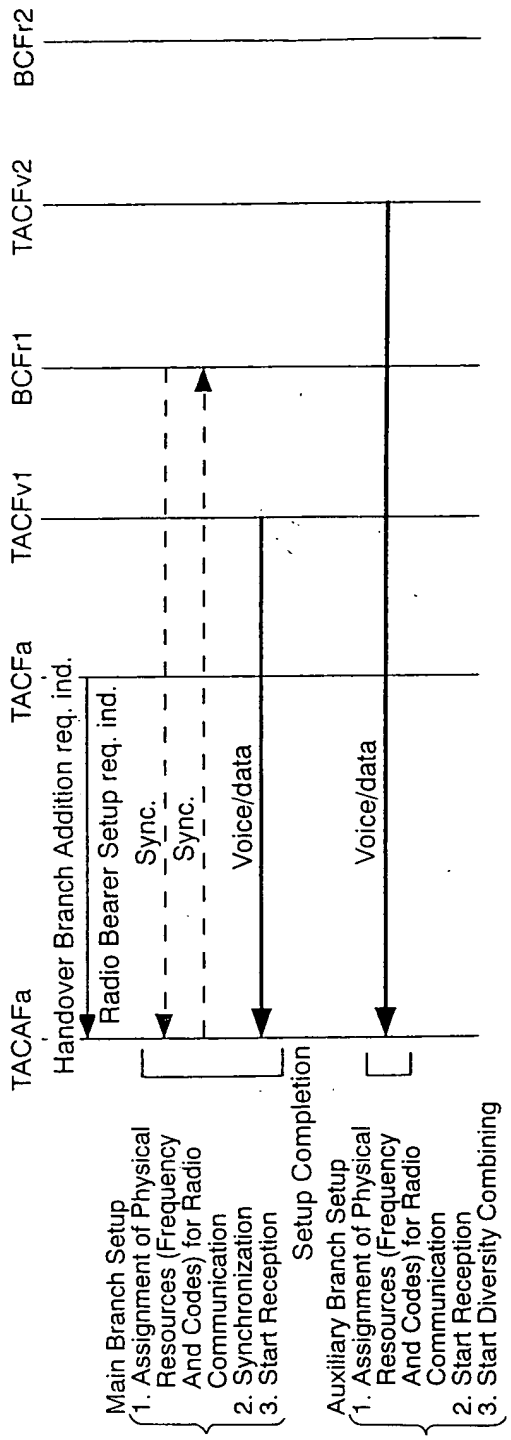
FIG. 785

Procedure of Branch Replacement Handover from BTS1 to BTS3 And Continuance of Only Priority Call 1 from the State Where Simultaneous Plural Call Communication Using Calls 1 and 2



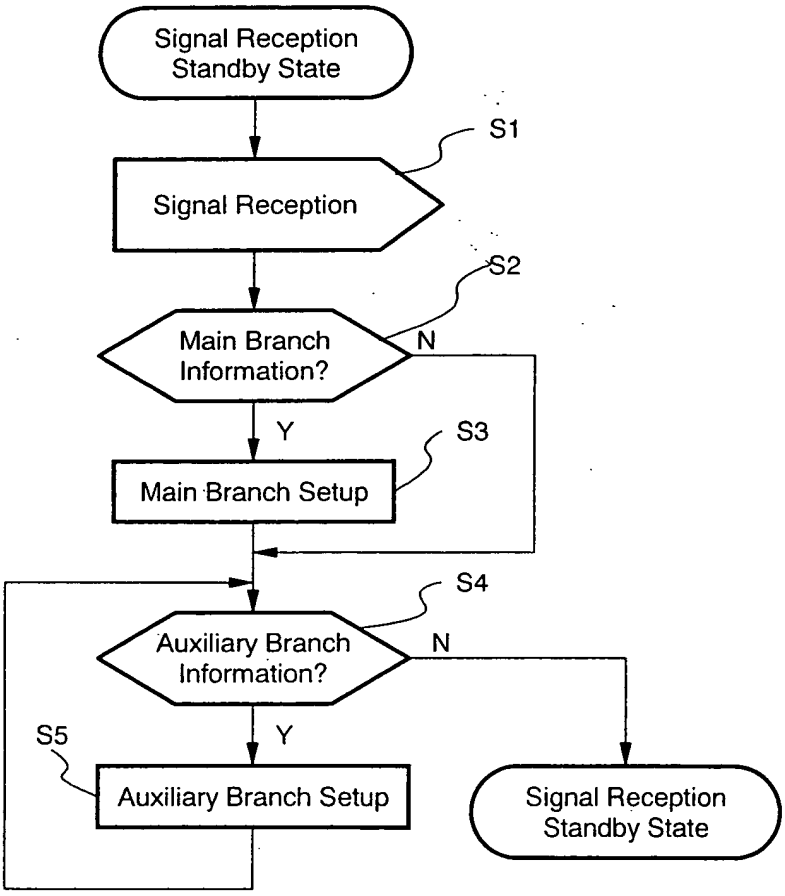
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FIG. 786



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FIG. 787



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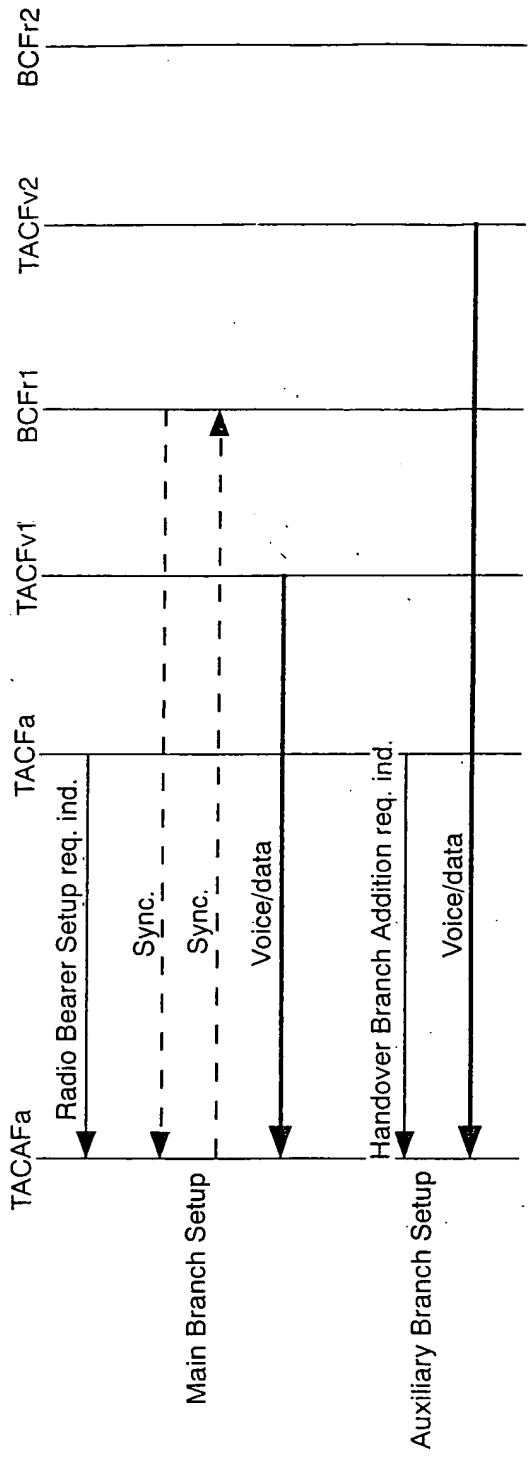
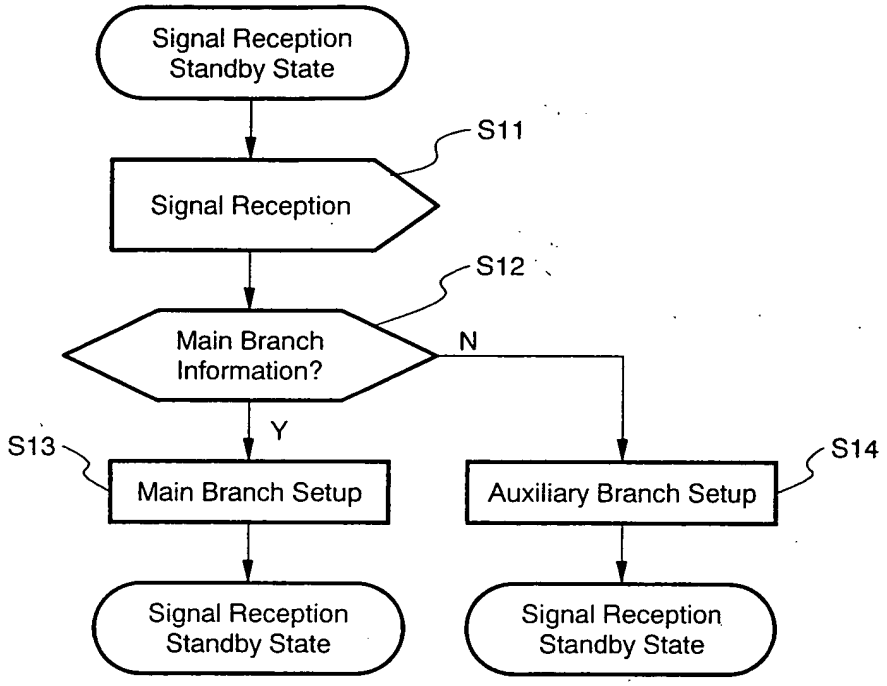


FIG. 788

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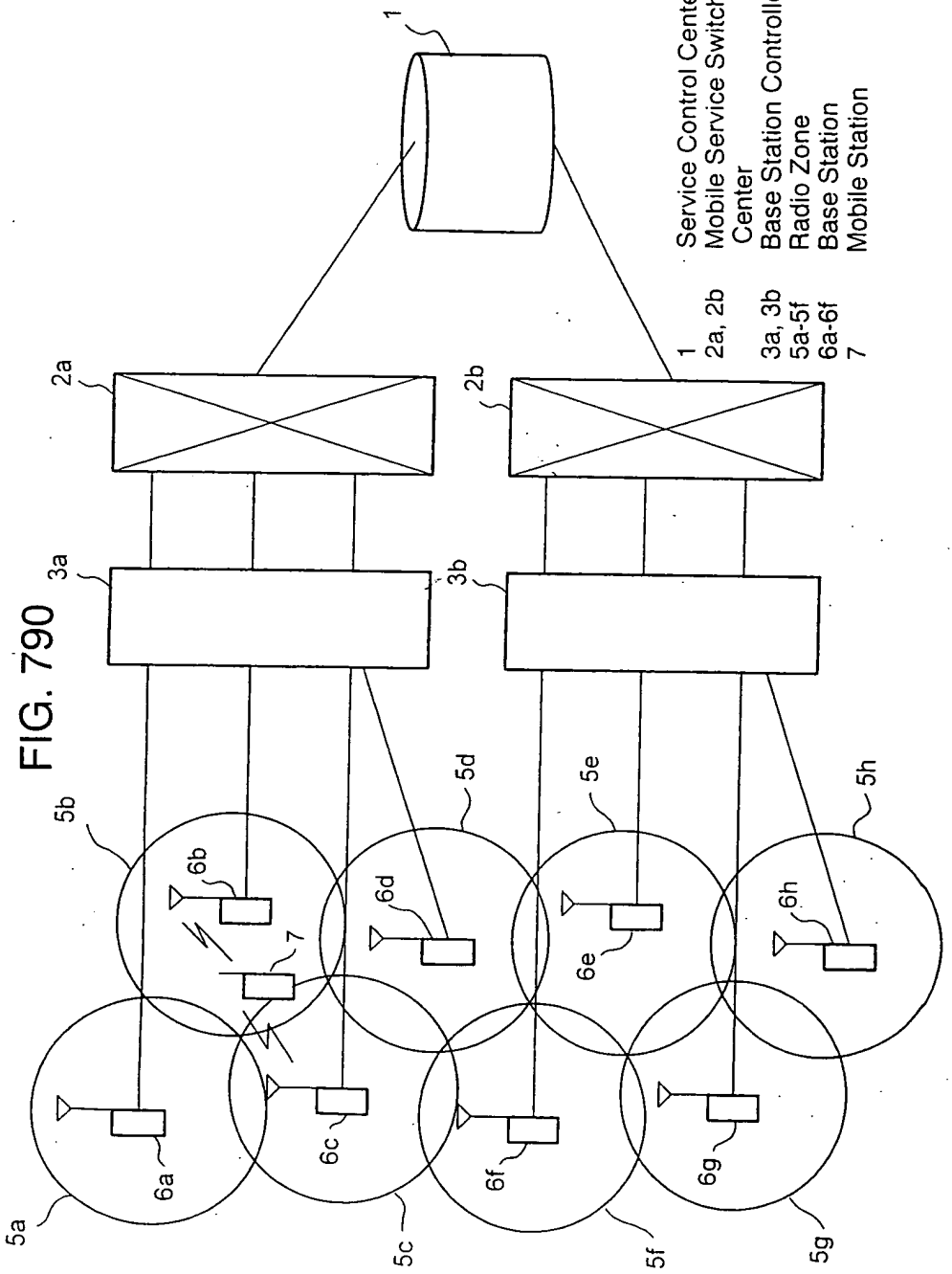
FIG. 789



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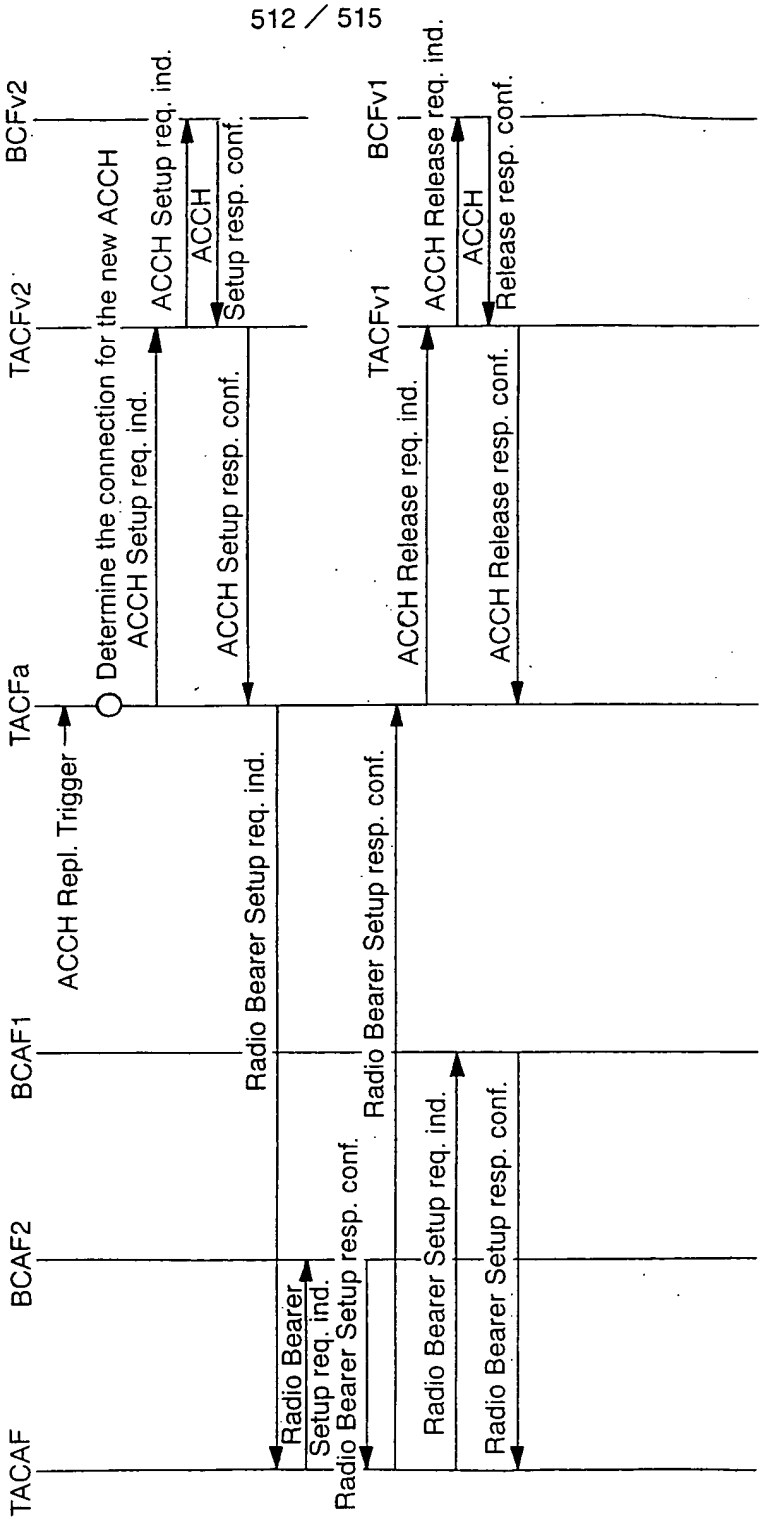
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FIG. 790



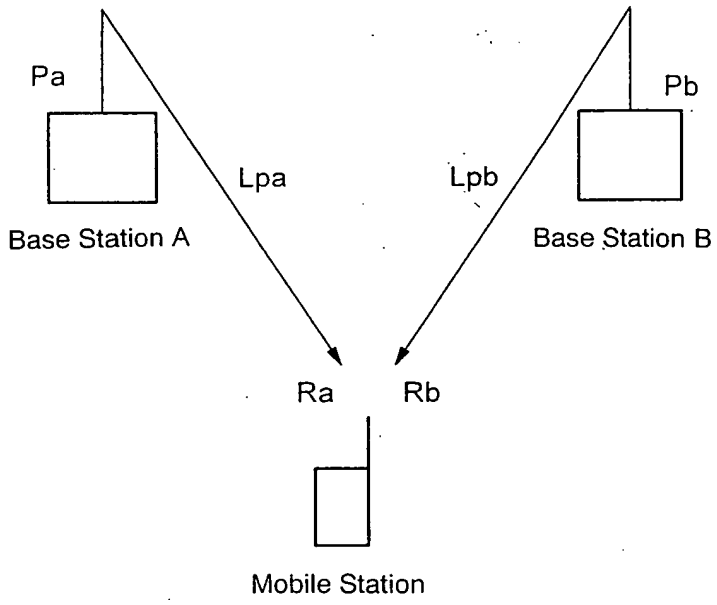
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FIG. 791



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FIG. 792



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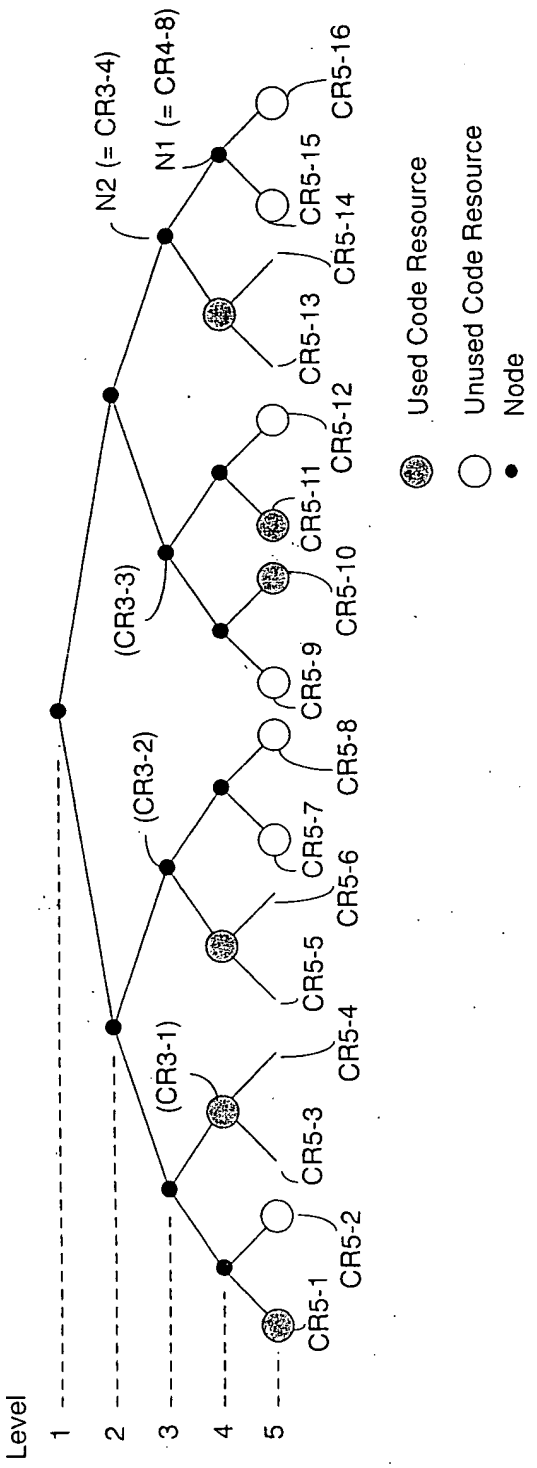


FIG. 793

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FIG. 794

